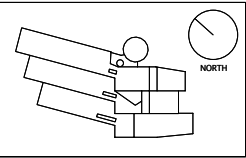


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Design Architect Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Architect of Record Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Exhibit Construction Engineer Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Building Engr./Plumbing/FP Engr./Mechanical/Electrical/PE Engineer Quinn Engineering Associates, Inc. 384 West 300 South, Suite 100 Salt Lake City, Utah 84103 801.522.8600 tel.	Building Engr./Plumbing/FP Engr./Mechanical/Electrical/PE Engineer Gavin Engineering Associates, Inc. 244 West 300 South Main Street Salt Lake City, Utah 84111 801.322.2400 tel.	Landscape Architect Design Workshop Inc. 1735 Divisadero Street San Francisco, CA 94103 415.685.9555 tel.	Lighting Branson Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	Audio Visual BBI Engineering, Inc. 241 Quind Street San Francisco, CA 94124 415.685.9555 tel.	Exhibition Planner and Designer Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.
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Exhibit Construction



Key Plan

FD WS2rev	Sept.22, 2008
FD WS2	Sept.9, 2008
100% DD	June 2, 2008
XG 60% CD	May 5, 2008
WS9	March. 26, 2008
WS8	Feb. 20, 2008
WS7	Dec. 18, 2007
50% DD	Sept. 18, 2007
WS6	July 11, 2007
WS5	May 23, 2007
WS4	April 12, 2007

No. / Issue Name / Date

100% FD	March.16, 2009
80% FD	Dec.19, 2008
FD WS4	Nov.18, 2008
FD WS3	Oct.16, 2008

No. / Issue Name / Date

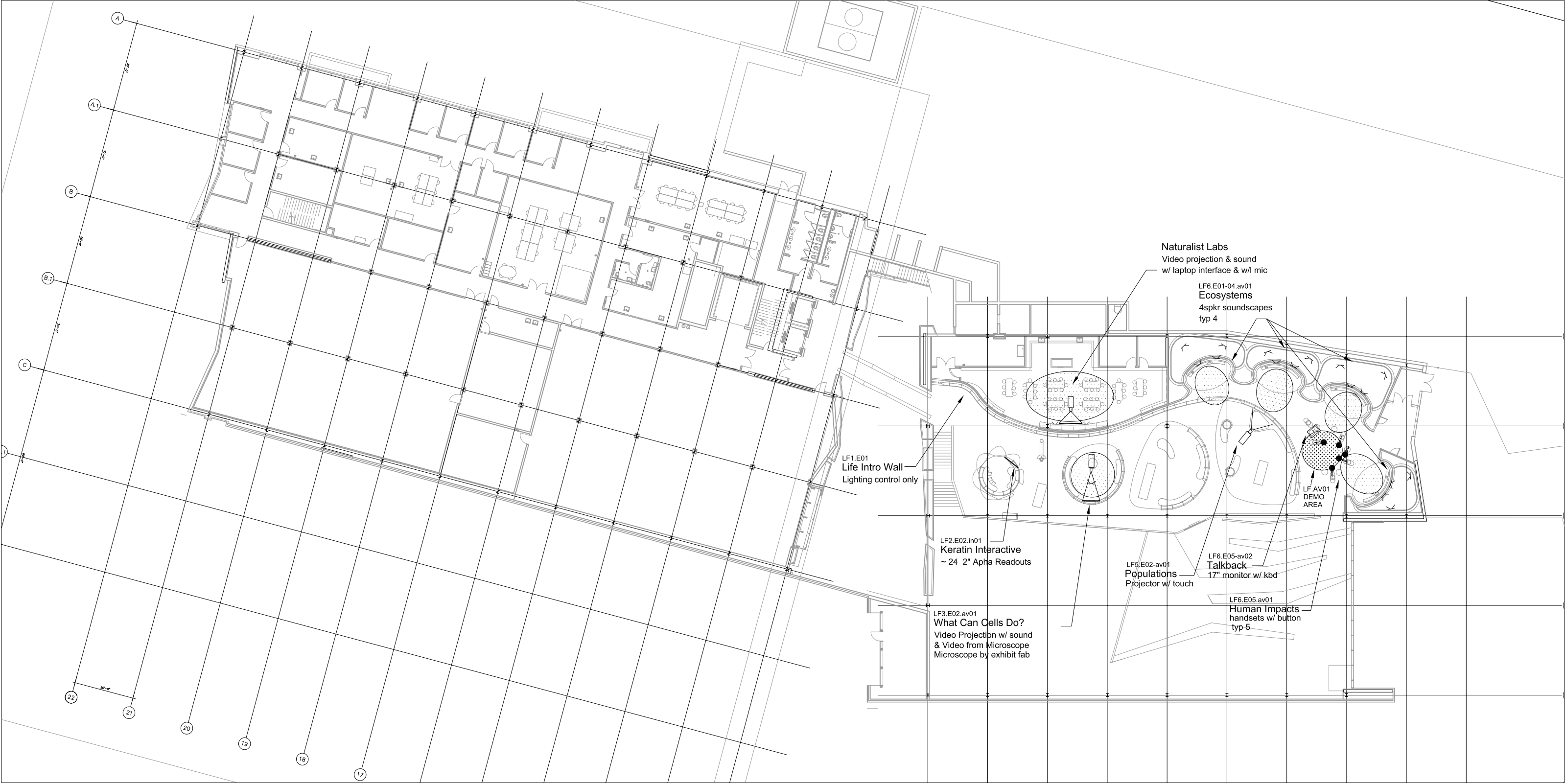
Sheet Title

LEVEL 3-AV

Date	Rev. 12/20/09	Rev. 12/20/09
Project No.	0872-9630	0872-9630
Sheet No.	02243750	02243750

AV-02

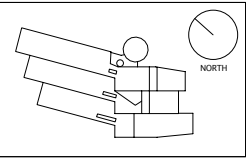
*Note: Scale Given for Full Size Drawing Sheet (22" x 34")



UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brans Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstetter Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



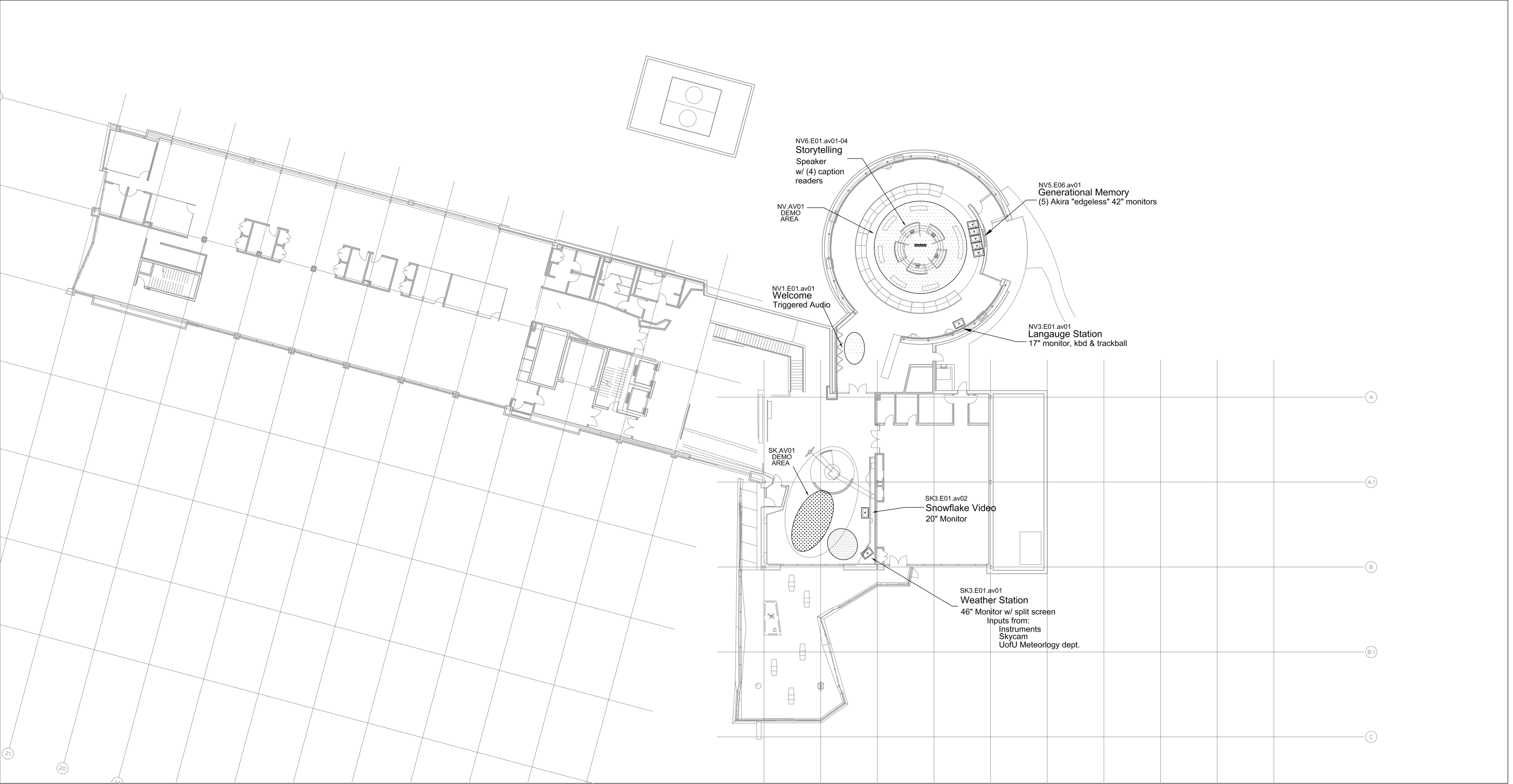
Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title	LEVEL 4-AV
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-03

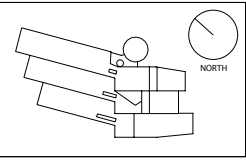
*Note: Scale Given for Full Size Drawing Sheet (22" x 34")



UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBJ Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date	

No. / Issue Name / Date	

Sheet Title	
LEVEL 5-AV	
Date	RAA Project No. 0275
April 2, 2009	U. of U. Project No. 0872-9630
Scale*	DFCM Project No. 02243750
	Sheet No.

AV-04

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator
1Gb

Typical of (6) stations

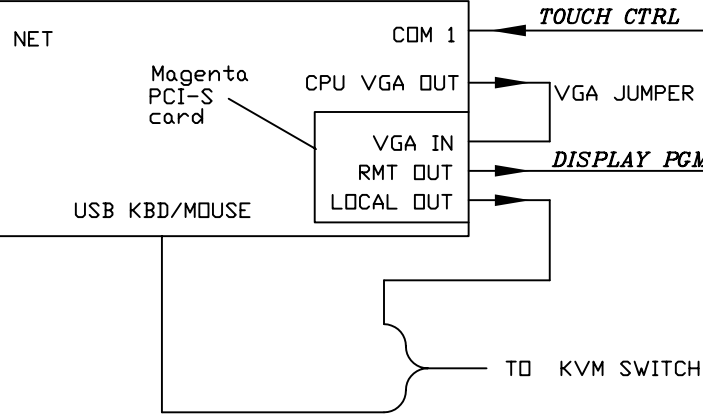
CONTROL ROOM

EXHIBIT FLOOR

CPU w/ Extender Card

17" LCD TOUCH MONITOR

1G NET



TOUCH CTRL (RS232)

Touch

VGA REC

CAT6 IN

VGA OUT

VGA JUMPER

4:3

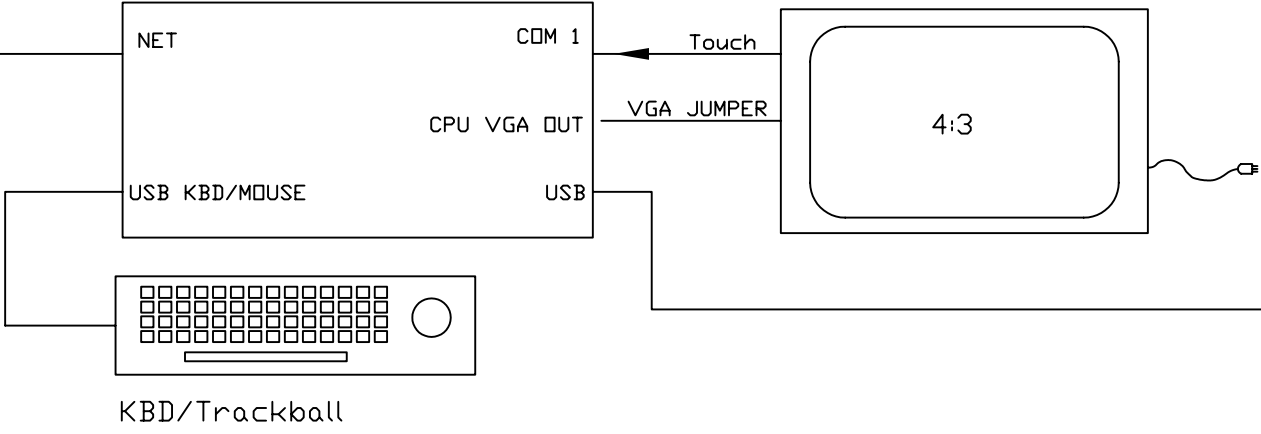
PS

TO KVM SWITCH

CPU w/ Extender Card

17" LCD TOUCH MONITOR

1G NET



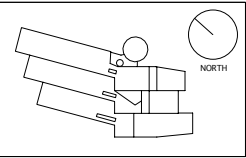
Gift Shop

Laser Printer

UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brans Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branson Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title **CN4.E01.av01-06**
TRAILHEAD

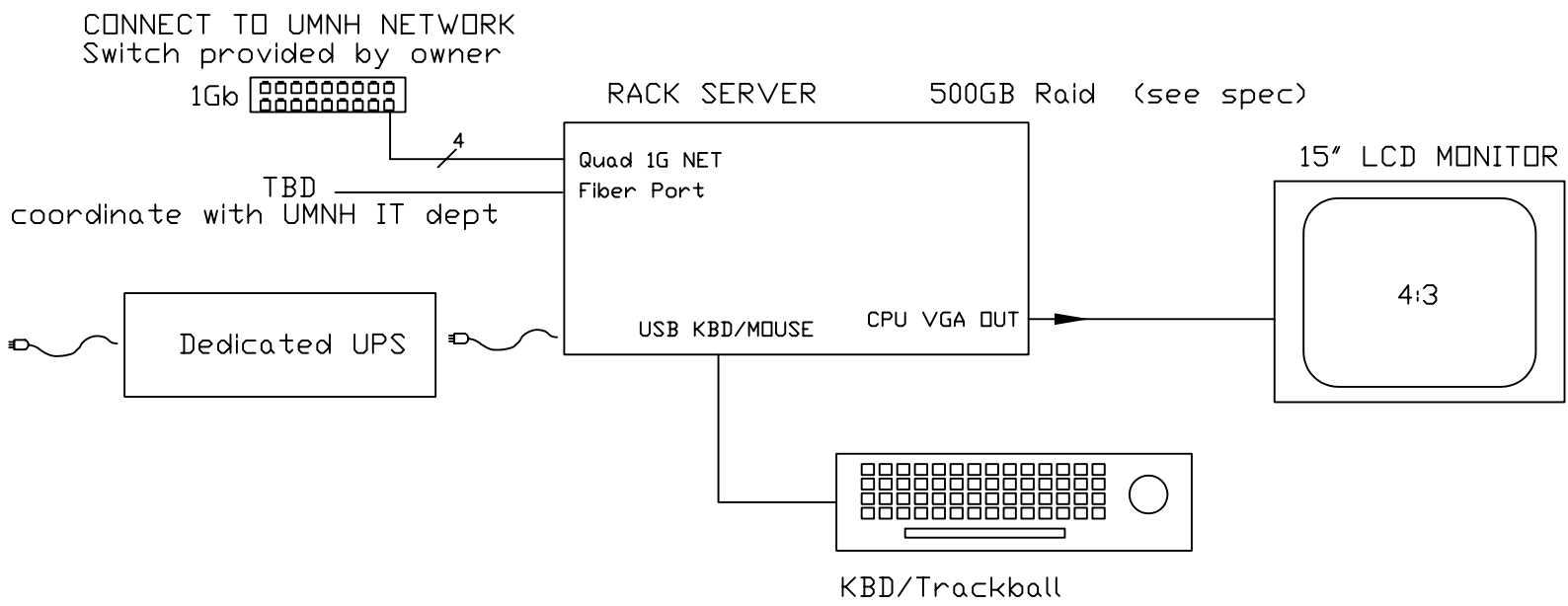
Date **April 2, 2009**

Scale* **100% Final Design April 2, 2009**

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. **AV-100**

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONTROL ROOM

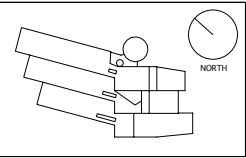


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstor Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

100% Final Design April 2, 2009									
No. / Issue Name / Date									

100% Final Design April 2, 2009									
No. / Issue Name / Date									

Sheet Title

TRAIL SYSTEM

Date

April 2, 2009

Scale*

RAA Project No. 0275

U. of U. Project No. 0872-9630

DFCM Project No. 02243750

Sheet No.

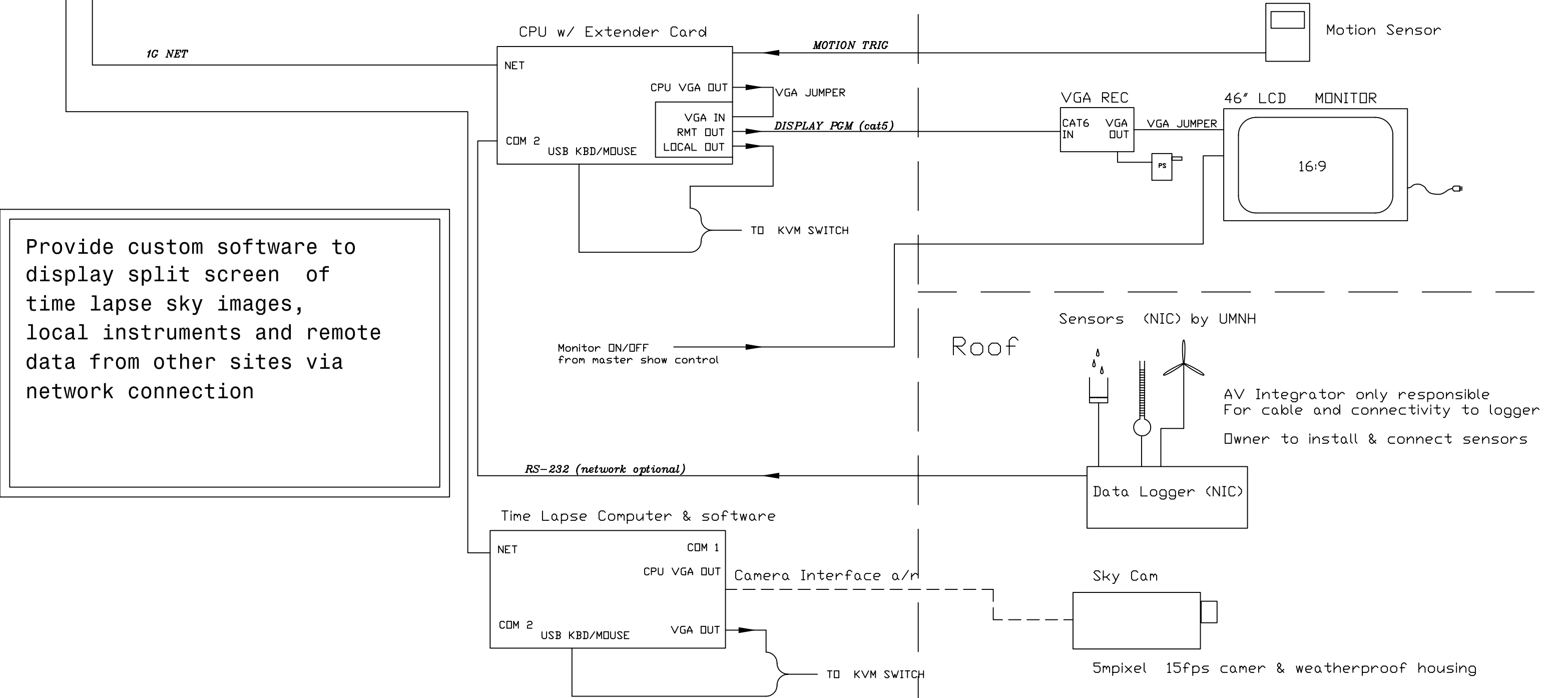
AV-101

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONNECT TO UMNH NETWORK
Switch provided by owner TBD
1Gb

CONTROL ROOM

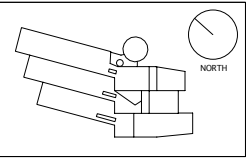
EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title SK3.E01.av01

WEATHER STATION

Date April 2, 2009

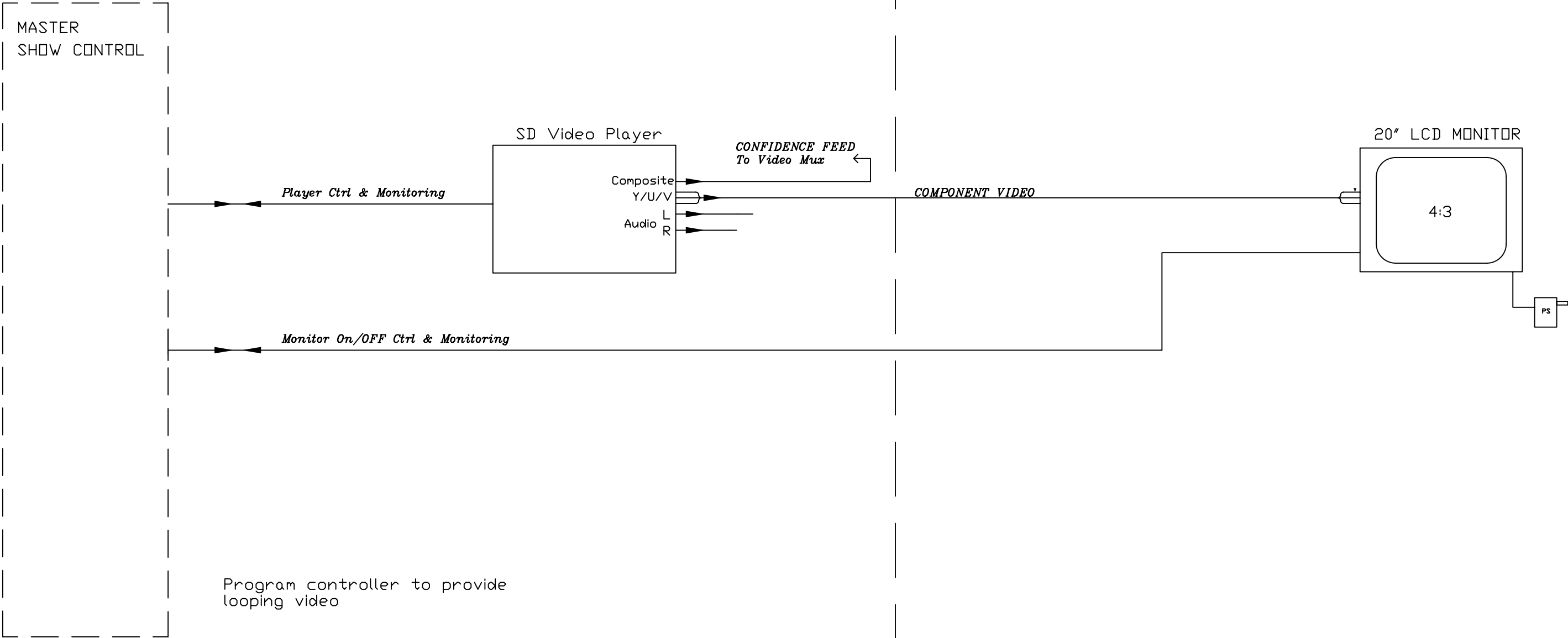
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RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. AV-102

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

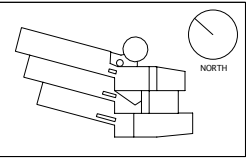


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title SK2.E01.av02

SNOWFLAKE

Date April 2, 2009

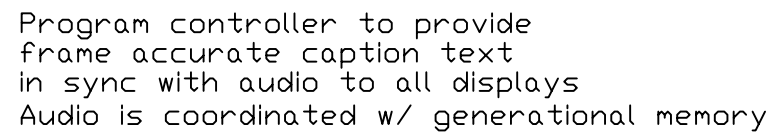
Scale*

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.

AV - 103

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

EXHIBIT FLOOR



UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Ralph Appelbaum Associates
88 Pine Street
New York, New York 10005
212.334.8200 tel.



100% Final Design April 2, 2009

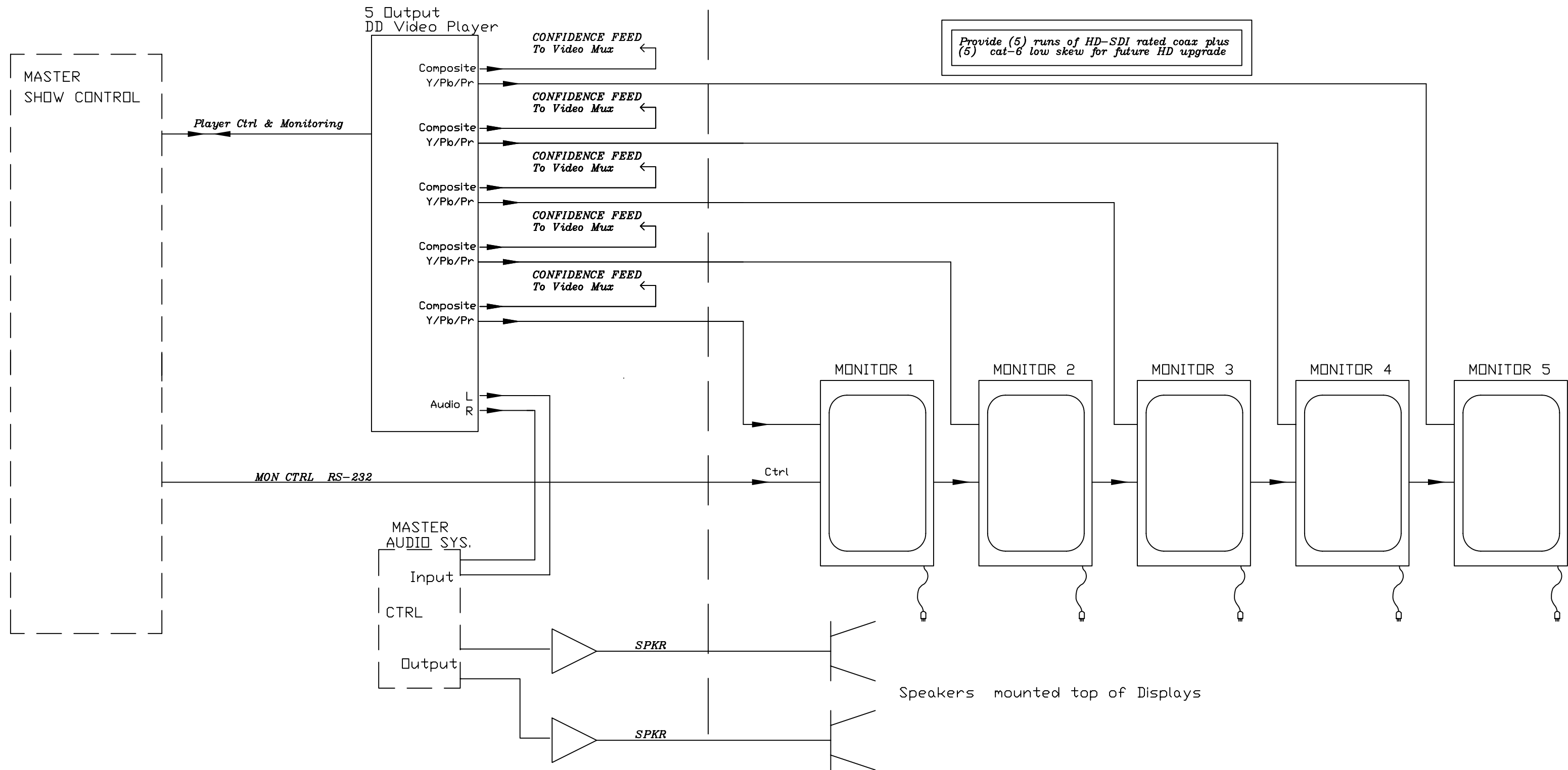
No. / Issue Name / Date

AV-104

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

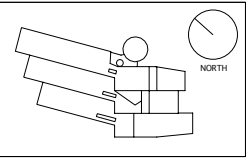


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 900 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel	Branston Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date	

No. / Issue Name / Date	

Sheet Title
NV5.E06.av01
GENERATIONAL MEM

Date
April 2, 2009

Scale*
100% Final Design April 2, 2009

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.
AV - 105

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

EXHIBIT FLOOR



UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Audio Visual	Exhibition Planner and Designer
BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Key Plan

No. / Issue Name / Date	100% Final Design April 2, 2009 No. / Issue Name / Date

WELCOME

AV - 106

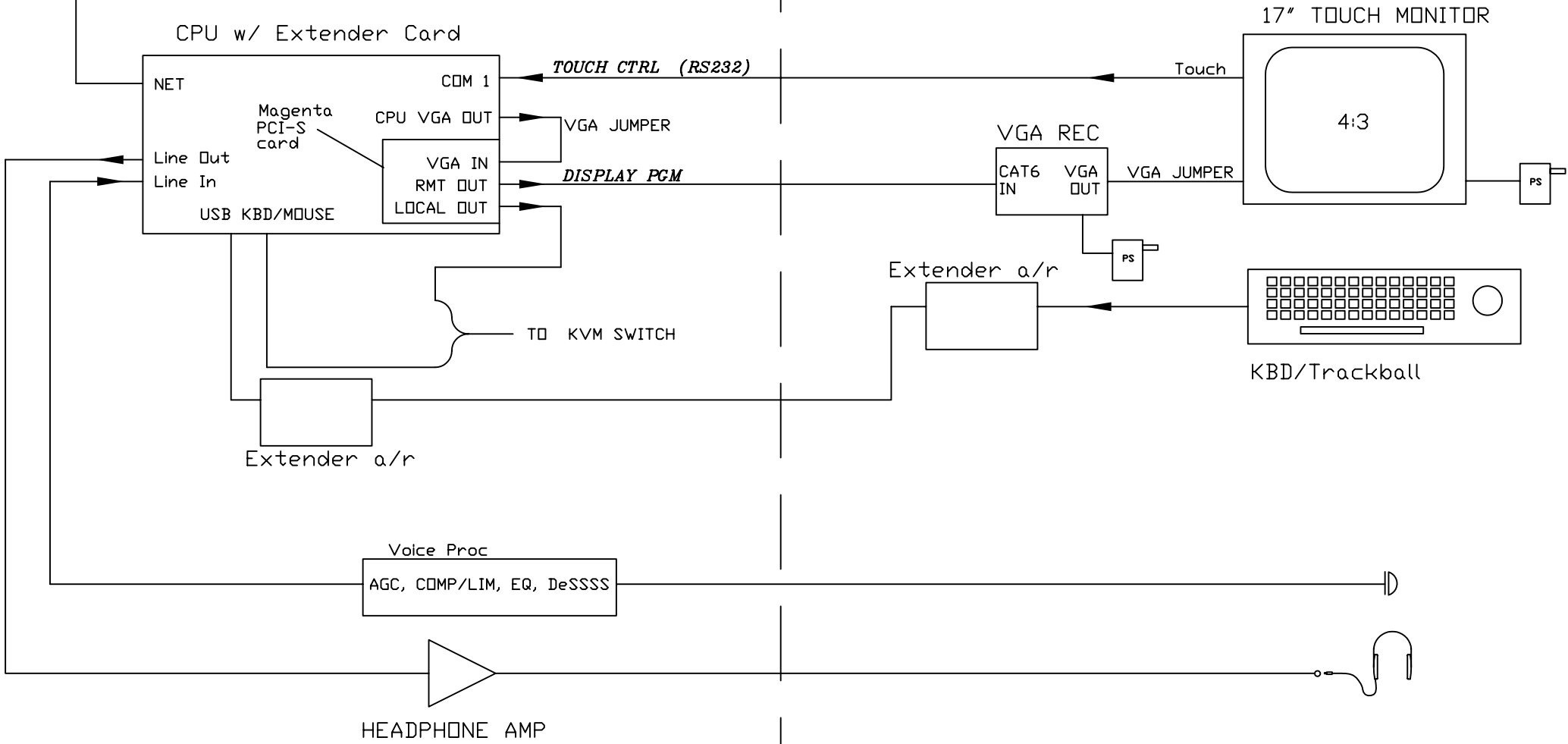
*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator
1Gb

1G NET

CONTROL ROOM

EXHIBIT FLOOR

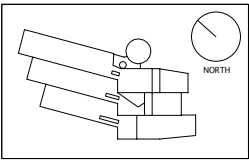


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

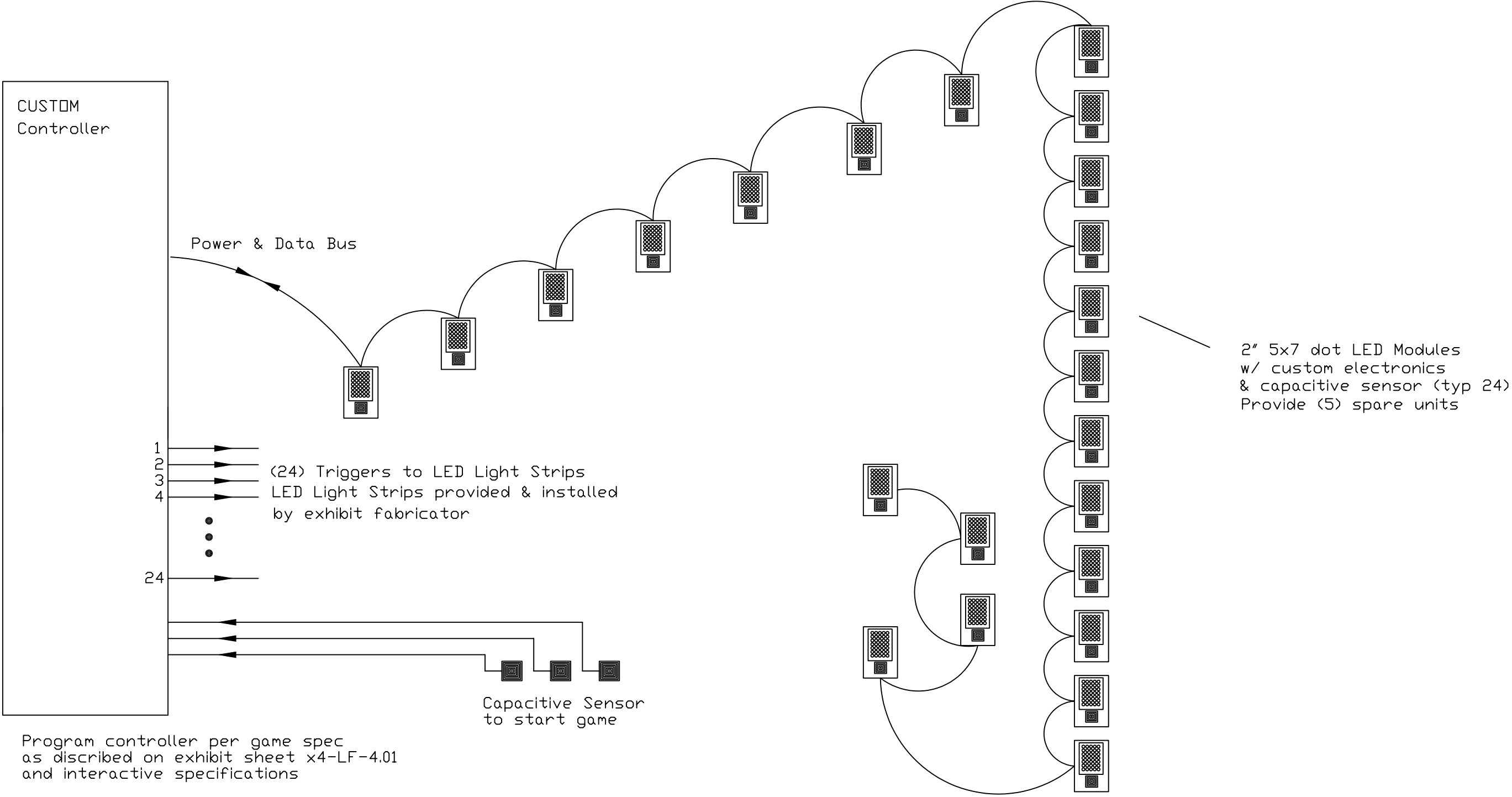
No. / Issue Name / Date

100% Final Design April 2, 2009
No. / Issue Name / Date

Sheet Title	NV3.E01.av01
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-107

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

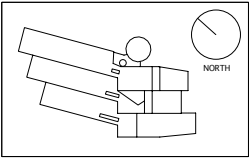
EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

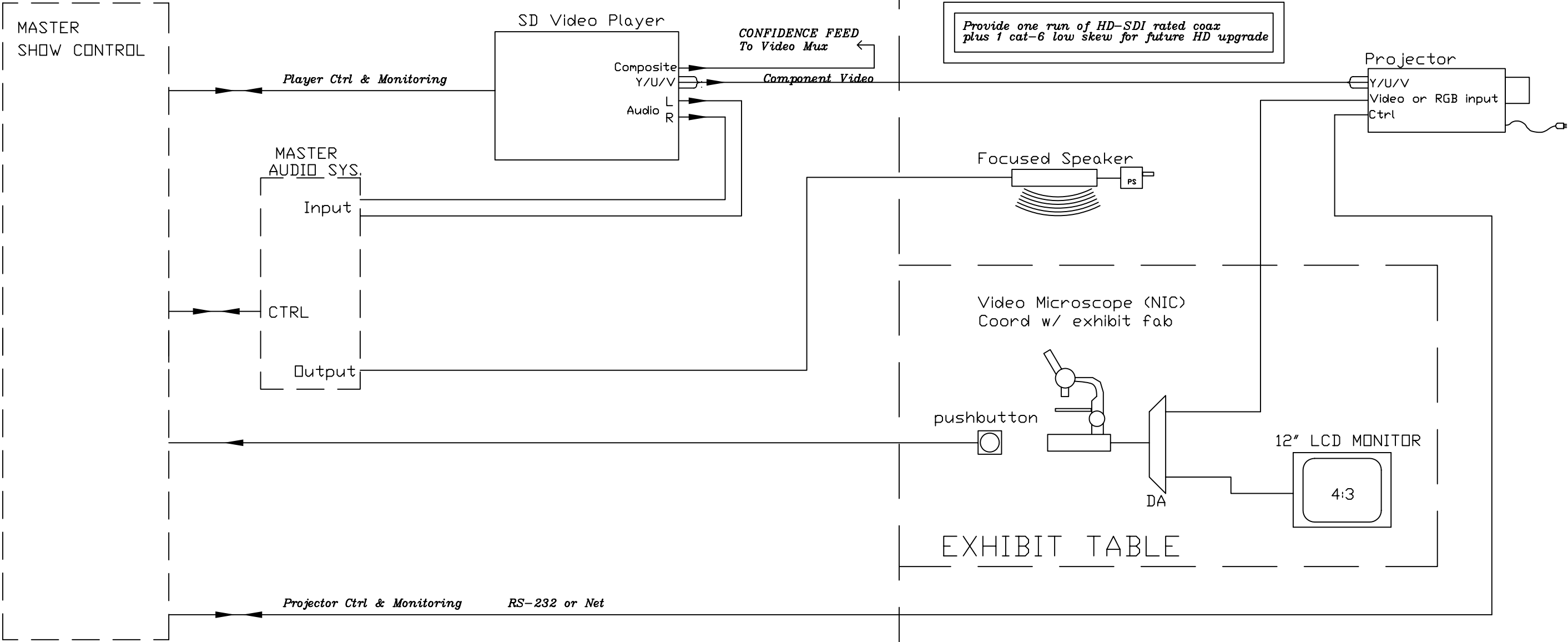
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No. / Issue Name / Date

Sheet Title	LF2.E02.av01
	KERITAN GAME
Date	April 2, 2009
Scale*	
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	AV-108

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR



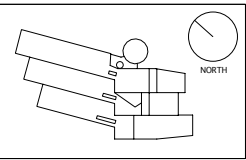
Program controller to loop play Hd Video
When button pressed mute audio, shift
projector to show live image from microscope
for ~ 30 sec

UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title **LF3.E02.av01**

WHAT CELLS CAN DO

Date **April 2, 2009**

Scale* **100% Final Design April 2, 2009**

RAA Project No. **0275**

U. of U. Project No. **0872-9630**

DFCM Project No. **02243750**

Sheet No. **AV-109**

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator

1Gb

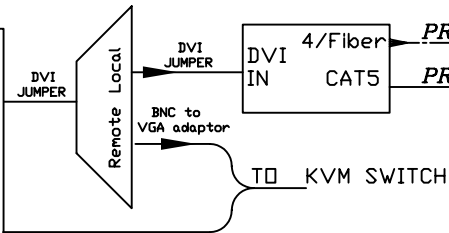
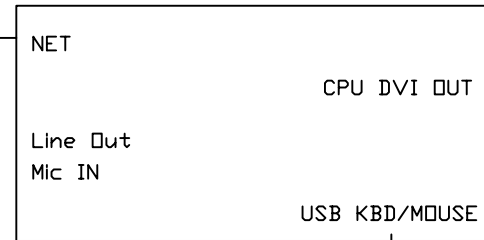
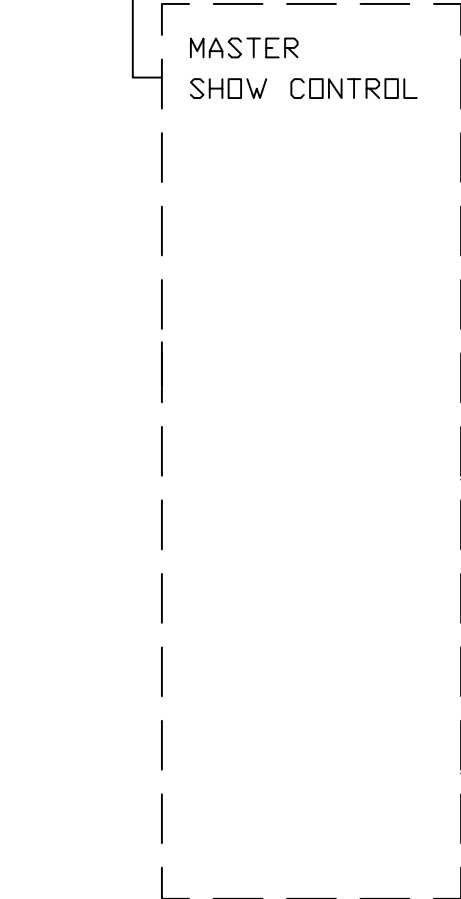
1G NET

CPU

DVI DA/ VGA Converter

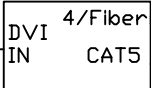
CONTROL ROOM

EXHIBIT FLOOR



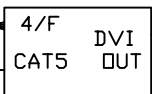
PROJ

PGM

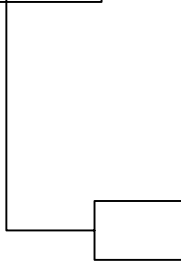


PROJ

EDID

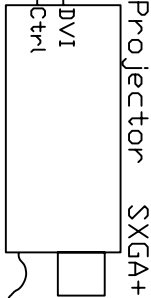
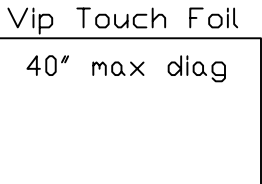


PS



Touch

USB
Extender



spare lamps
lens a/r

Projector Ctrl & Monitoring

RS-232 or Net

Case Light Controller by exhibit fabricator

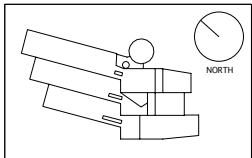


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

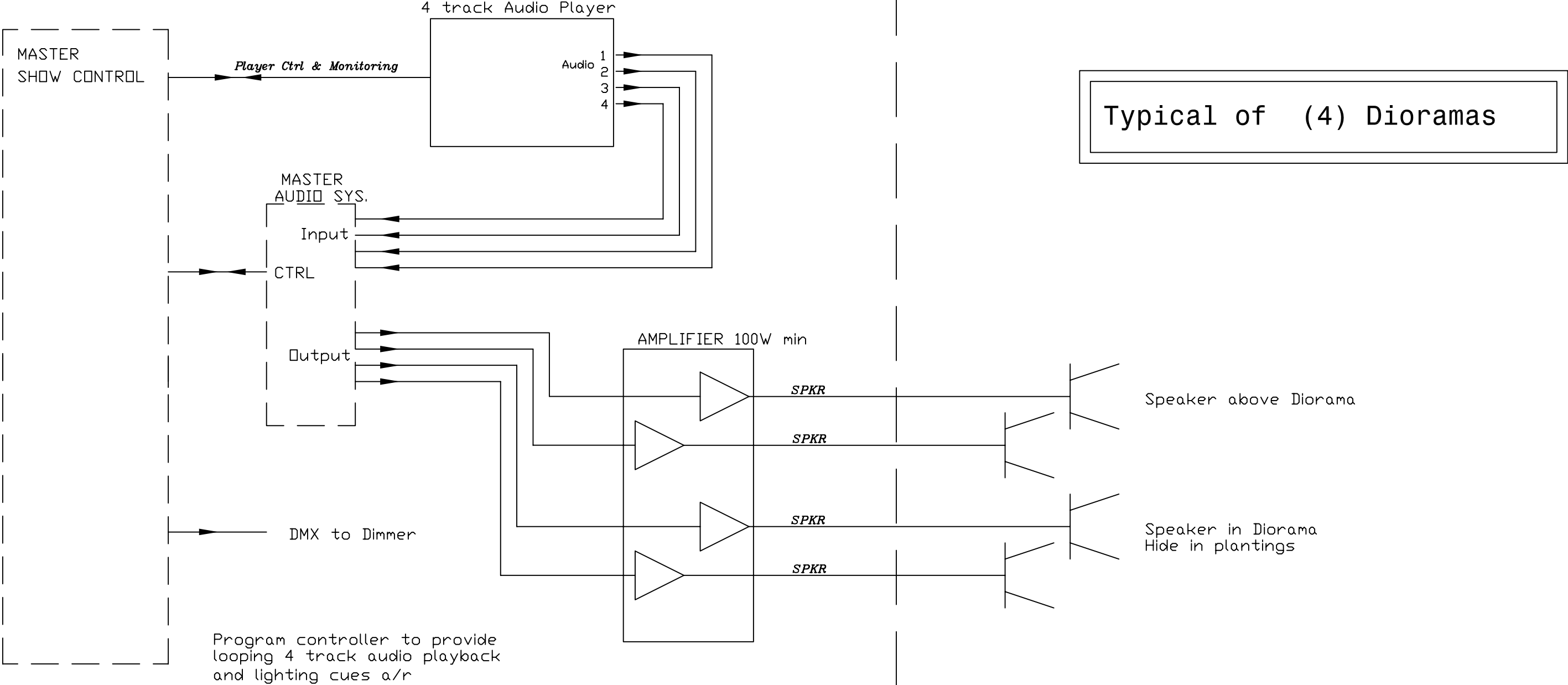
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Sheet Title	LF5.E02.av.01
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-110

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

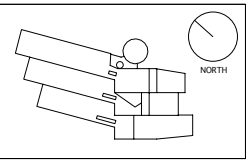


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

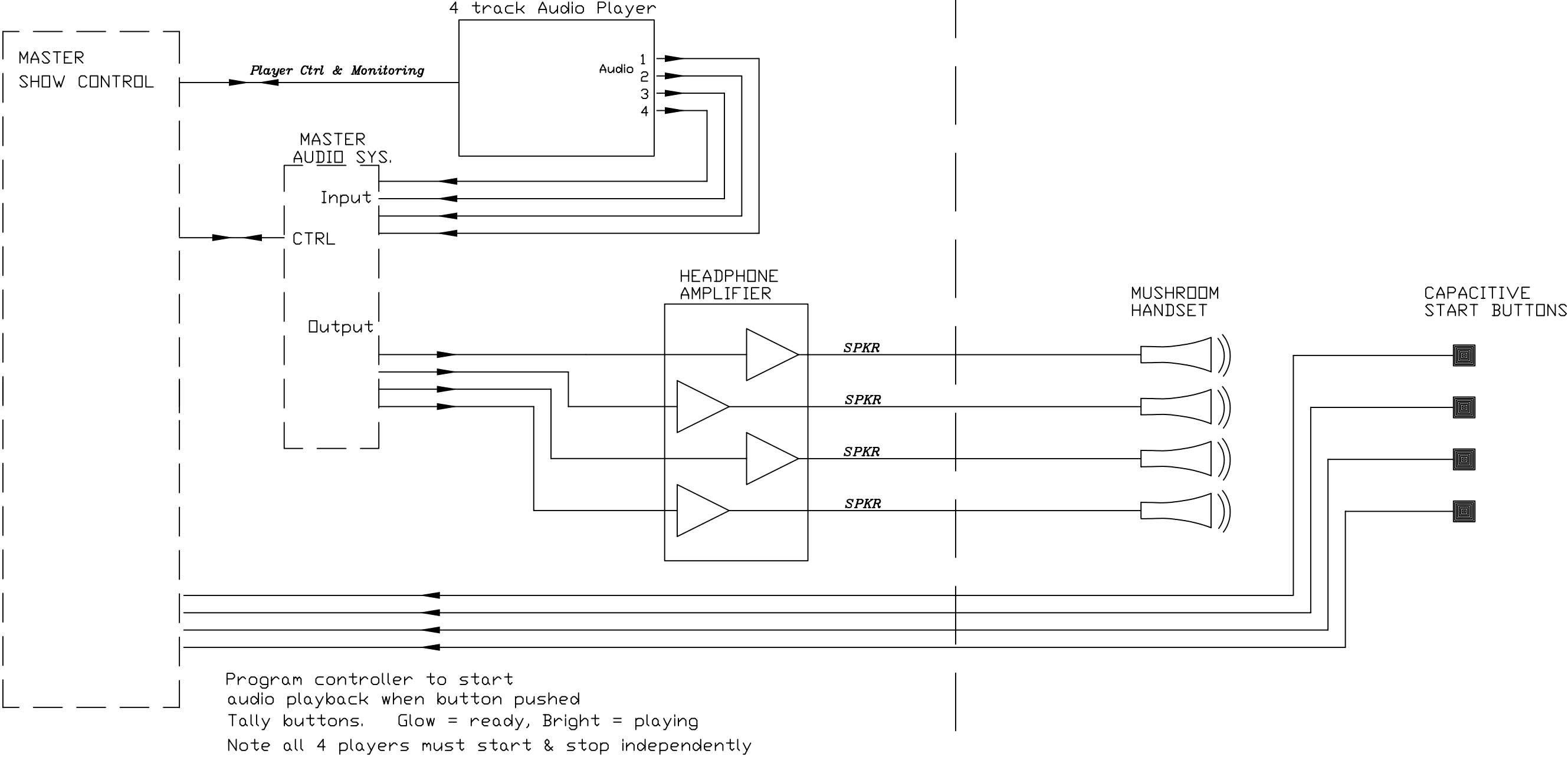
No. / Issue Name / Date

Sheet Title	LF6.E01-04.av.01
ECOSYSTEMS	
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-111

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

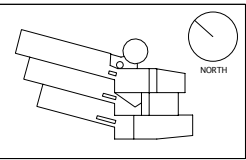


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



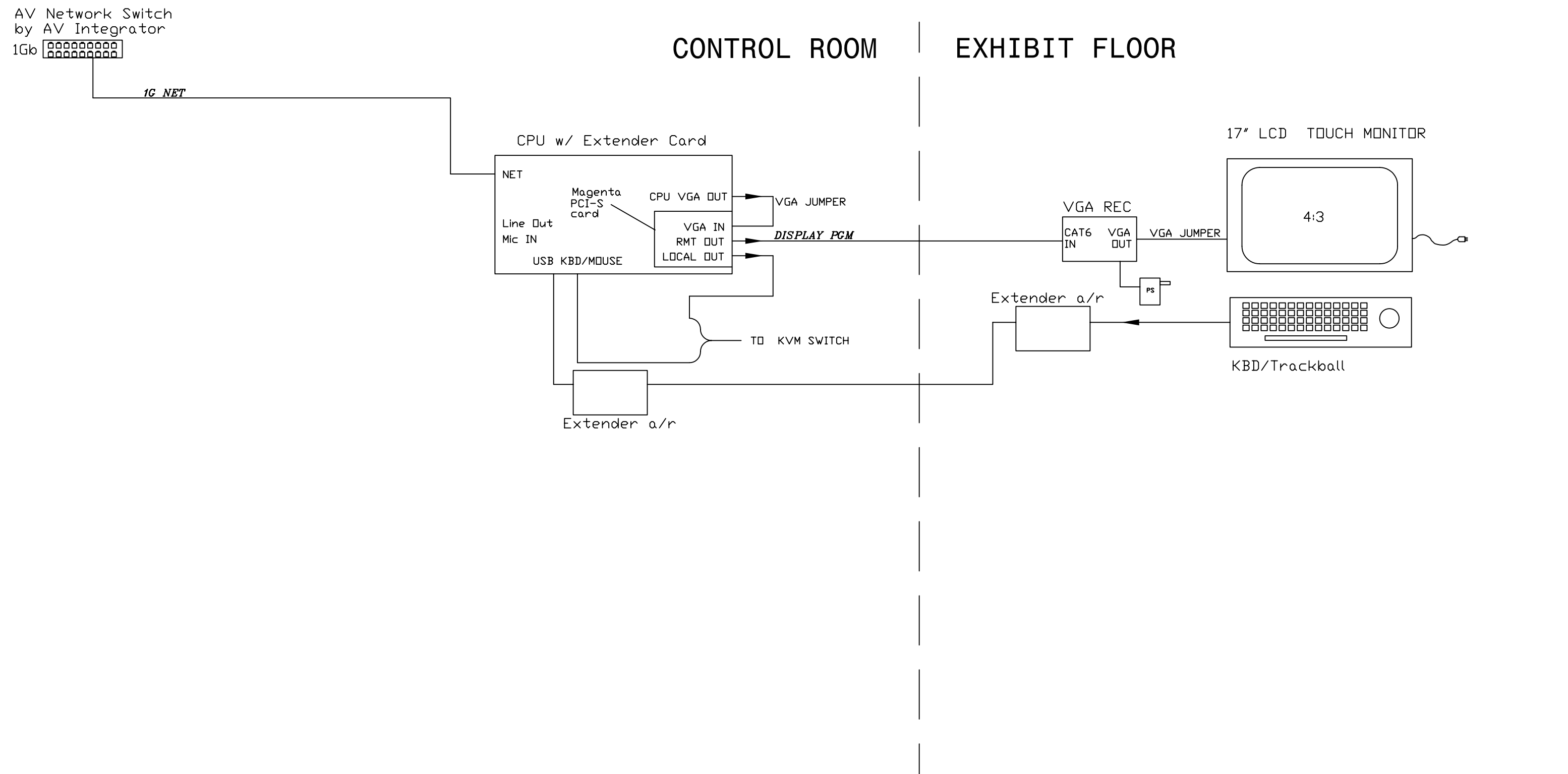
Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title	LF6.E05.av.01
	HUMAN INT.
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
	RAA Project No. 0275 U. of U. Project No. 0872-9630 DFCM Project No. 02243750 Sheet No.
	AV-112

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

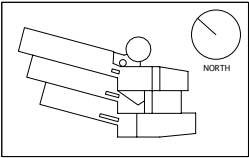


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstetter Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title **LF6.E05.av.02**
TALKBACK

Date **April 2, 2009**

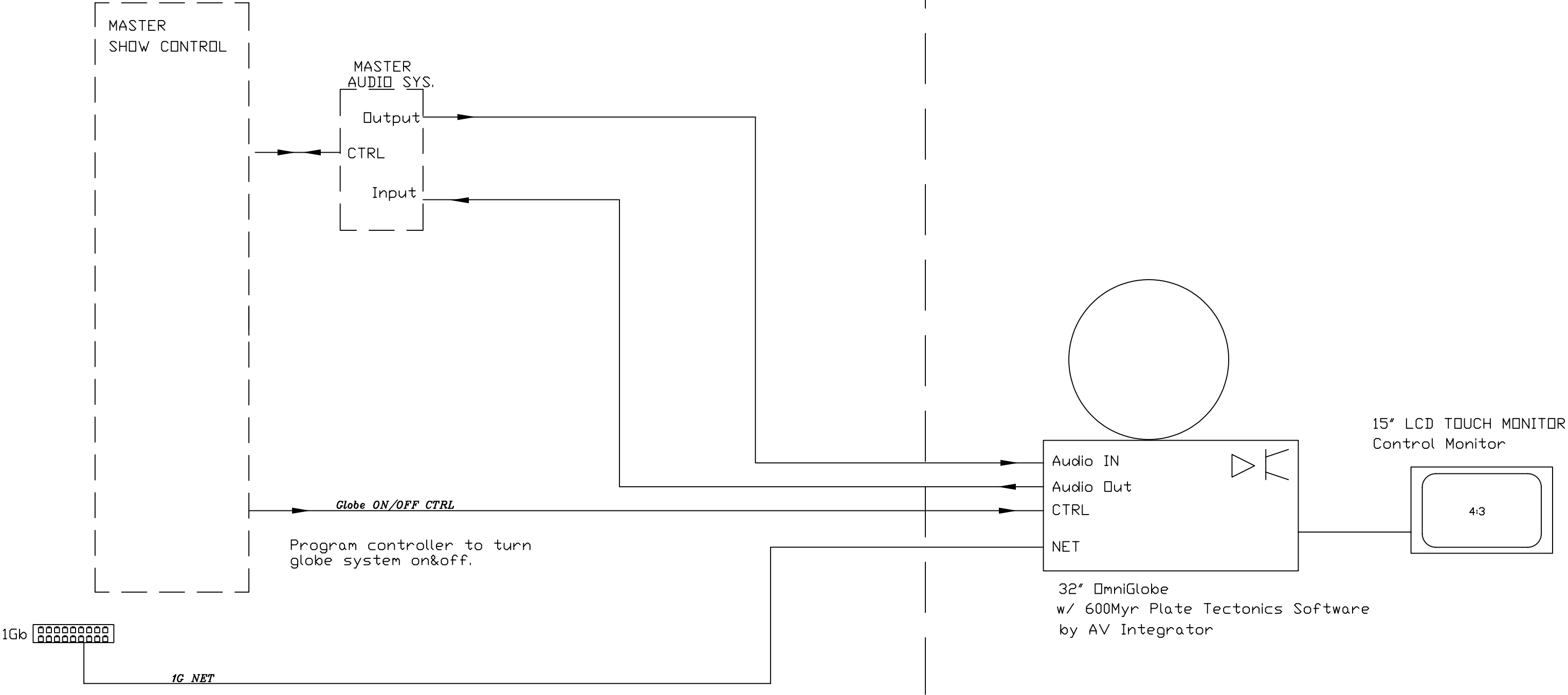
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RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. **AV-113**

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

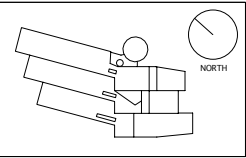
EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstetter Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date	

No. / Issue Name / Date	

Sheet Title **LD1.E03.av01**

PLATE TECTONICS

Date **April 2, 2009**

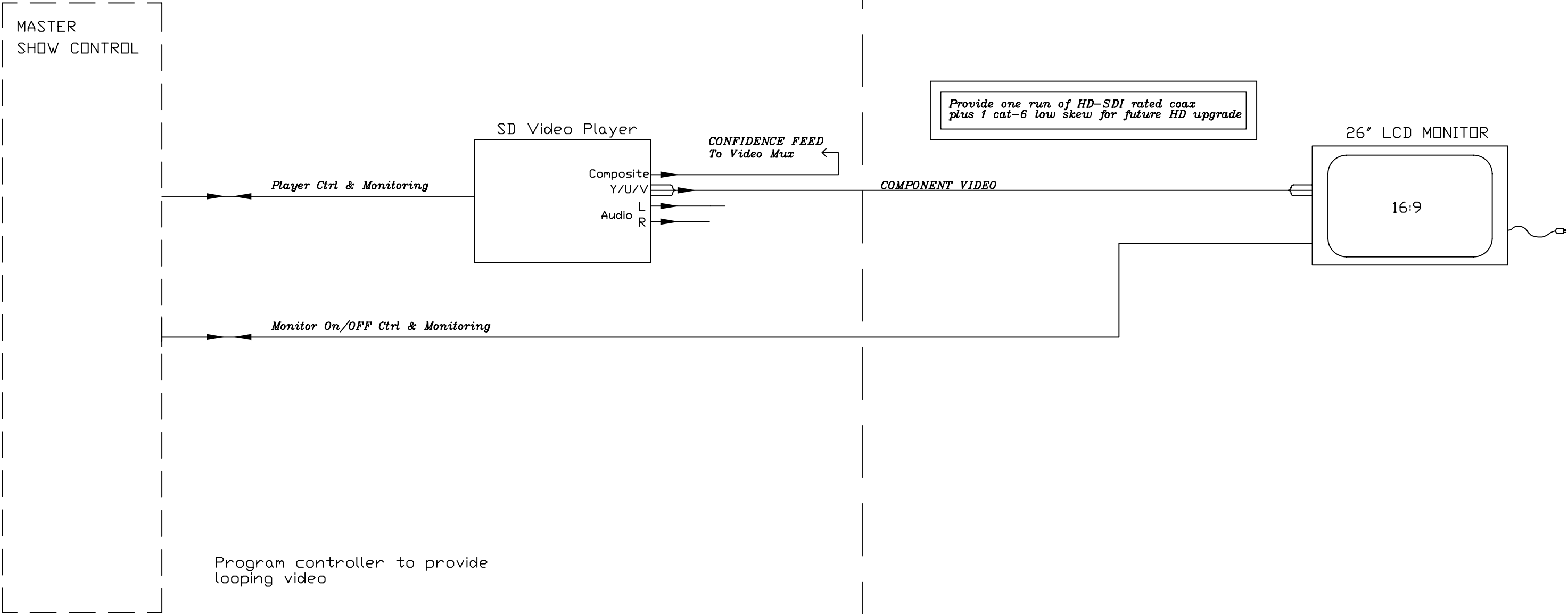
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RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. **AV-114**

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

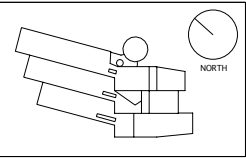


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

100% Final Design April 2, 2009

No. / Issue Name / Date

Sheet Title **LD4.E08.av01**

B+R BIOGEOGRAPHY

Date **April 2, 2009**

Scale*

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.

AV-115

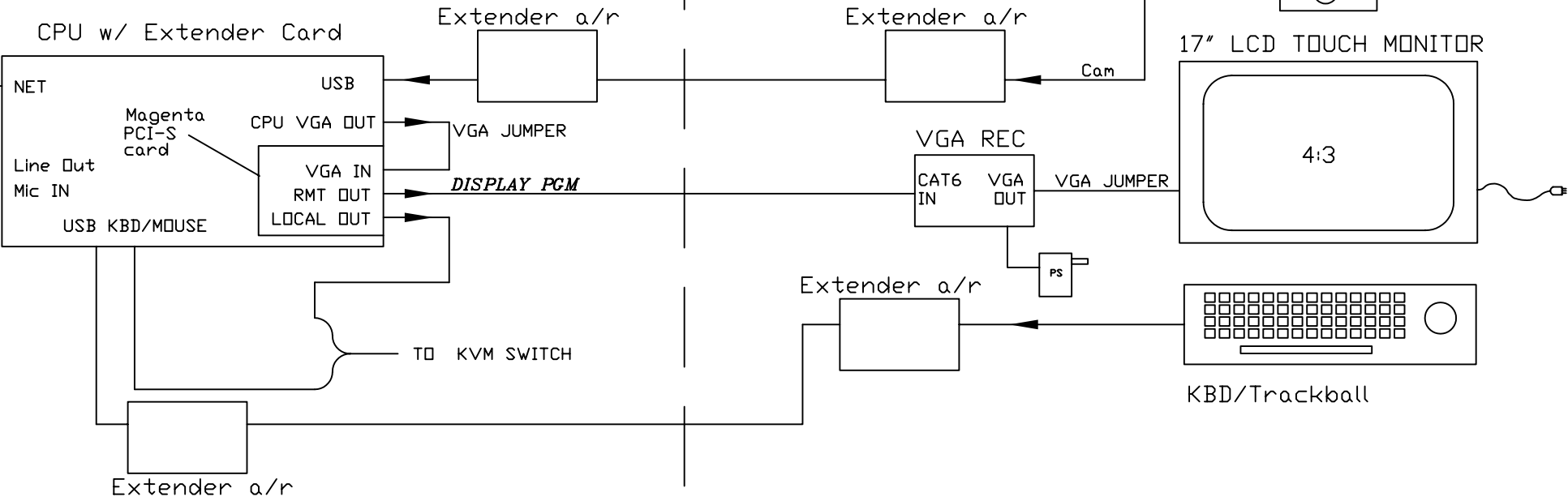
*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator
1Gb

1G NET

CONTROL ROOM

EXHIBIT FLOOR

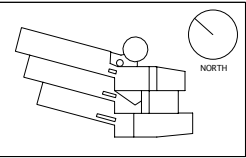


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title	LD4.E04.av.01
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-116

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONNECT TO UMNH NETWORK
Switch provided by owner

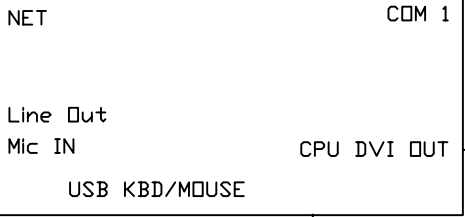
1Gb 

CONTROL ROOM

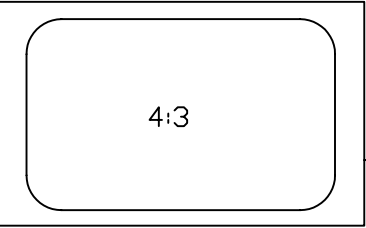
EXHIBIT FLOOR

1G NET

CPU w/ Extender Card



15" LCD MONITOR



DVI JUMPER

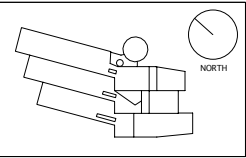


SIESMOMETER, INTERFACE & CABLE
Provided and installed by Owner

UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branson Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title LD4.E03.av.01

SIESMOMETER

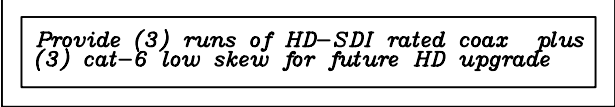
Date April 2, 2009

Scale* 100% Final Design April 2, 2009

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. AV-117

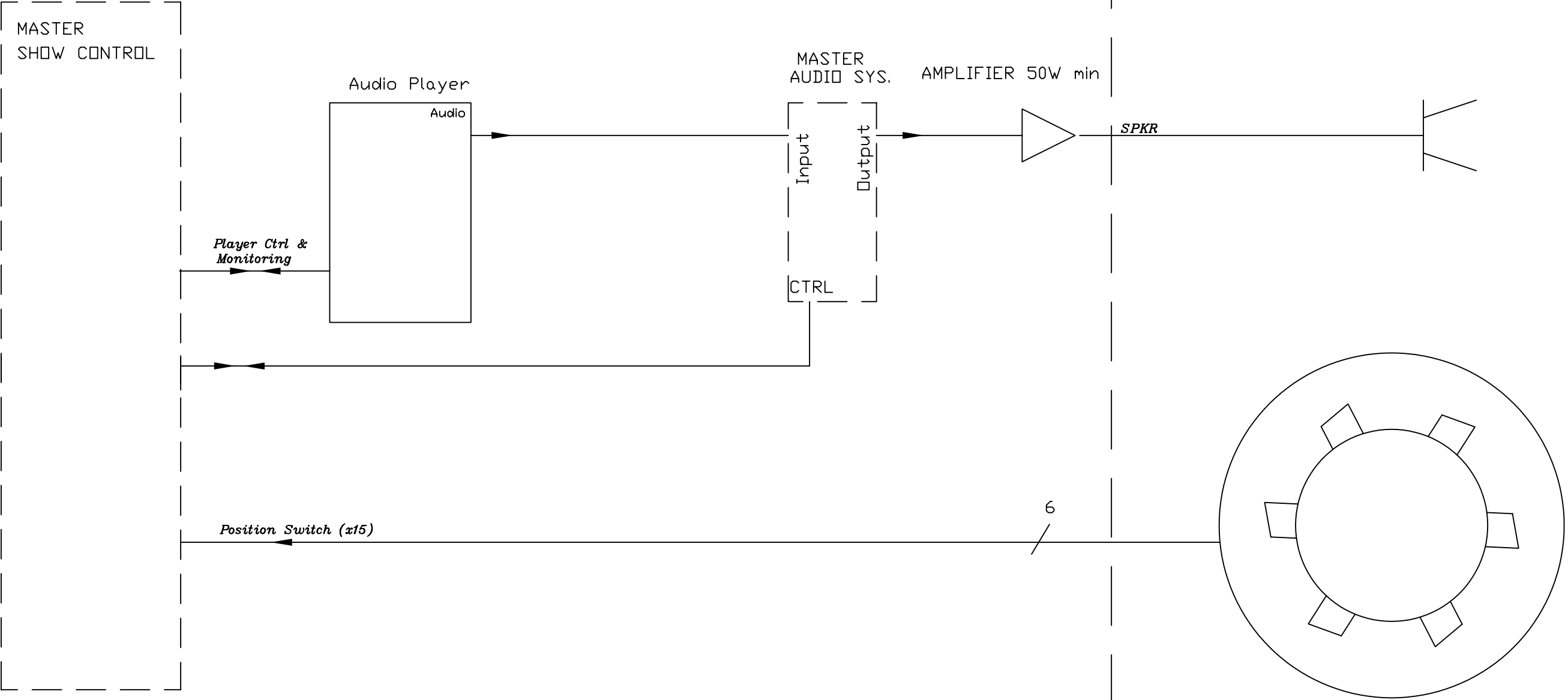
*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

EXHIBIT FLOOR



LOWER CONTROL ROOM

EXHIBIT FLOOR



Program controller to trigger various sounds simultaneously based on position

Sounds may overlap, hold till previous sound complete or crossfade.

See interactive write up for more detail

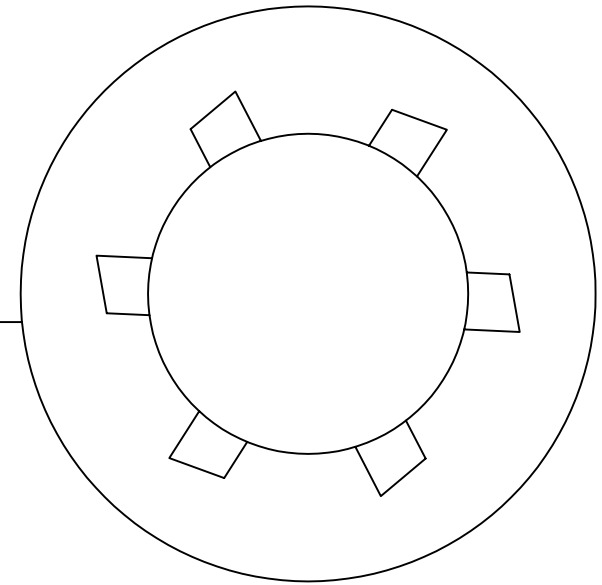
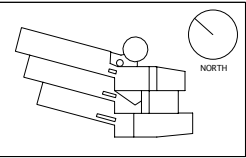


Table Mechainics & Switches/Sensors by fabricator
Coord w/ exhibit fab

UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel	Branstor Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

100% Final Design April 2, 2009
No. / Issue Name / Date

Sheet Title **FP5.E06.in01**

TOOL INTERACTIVE

Date **April 2, 2009**

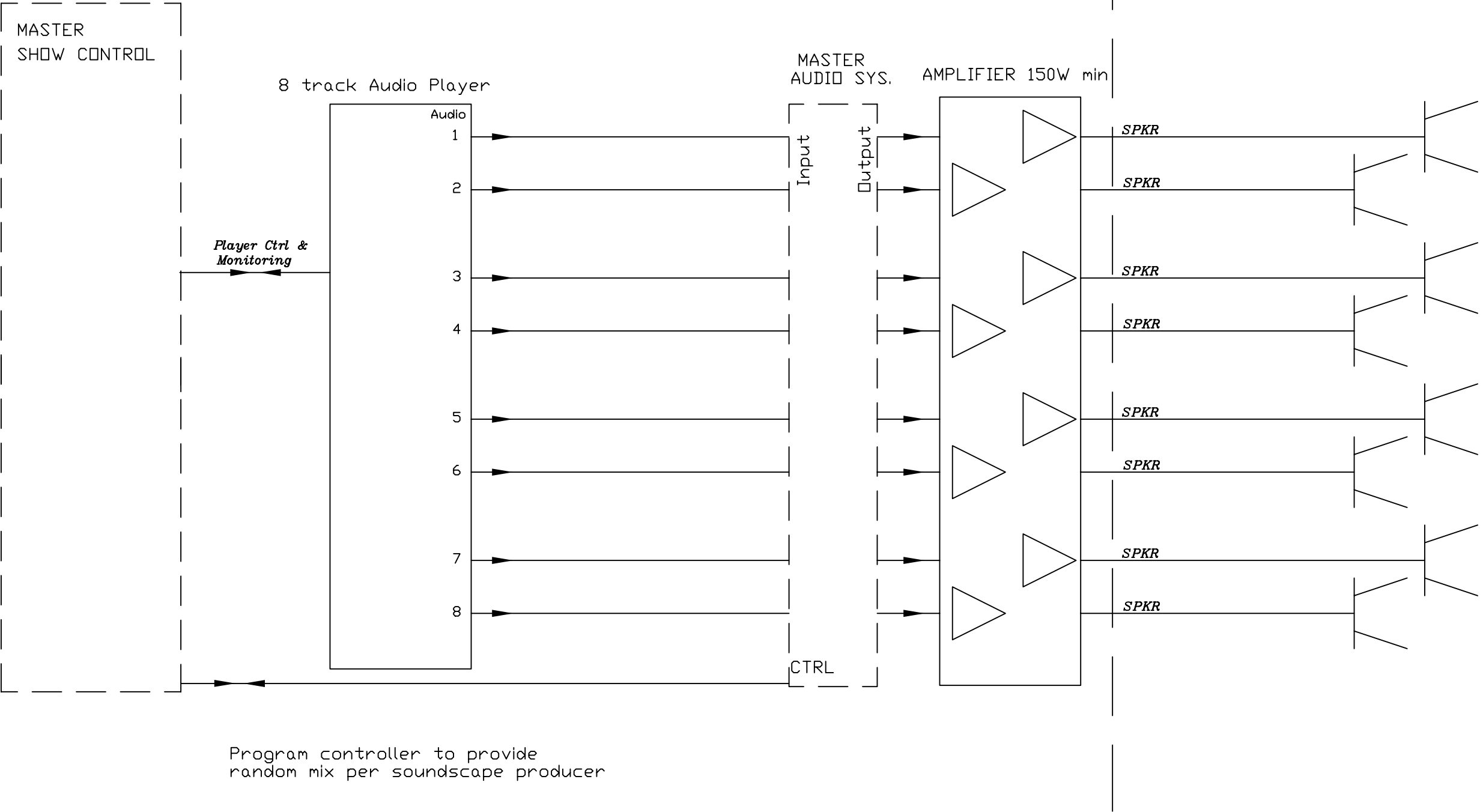
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RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No. **AV-119**

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

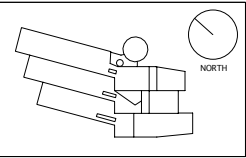


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title LK2.E01.av01

SOUNDS of the LAKE

Date April 2, 2009

Scale* 100% Final Design April 2, 2009

RAA Project No. 0275

U. of U. Project No. 0872-9630

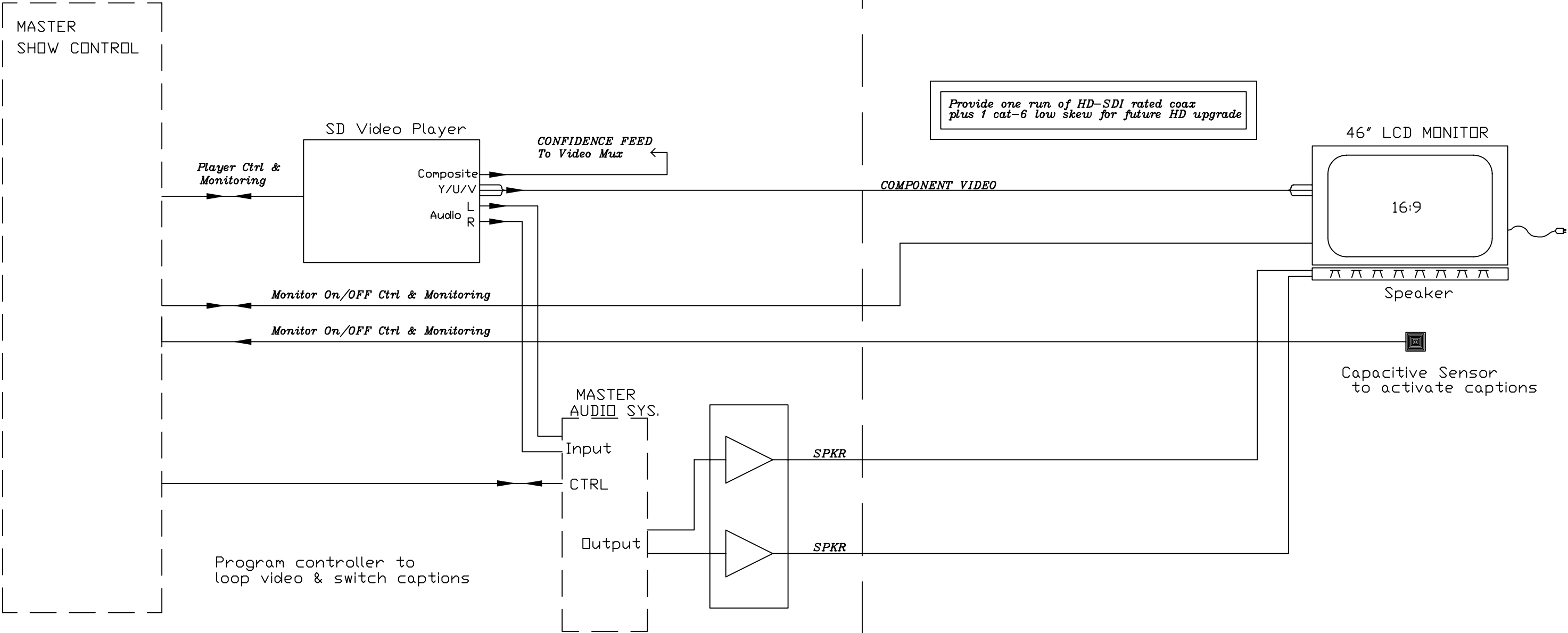
DFCM Project No. 02243750

Sheet No. AV-120

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

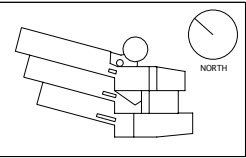


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel	Branstetter Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

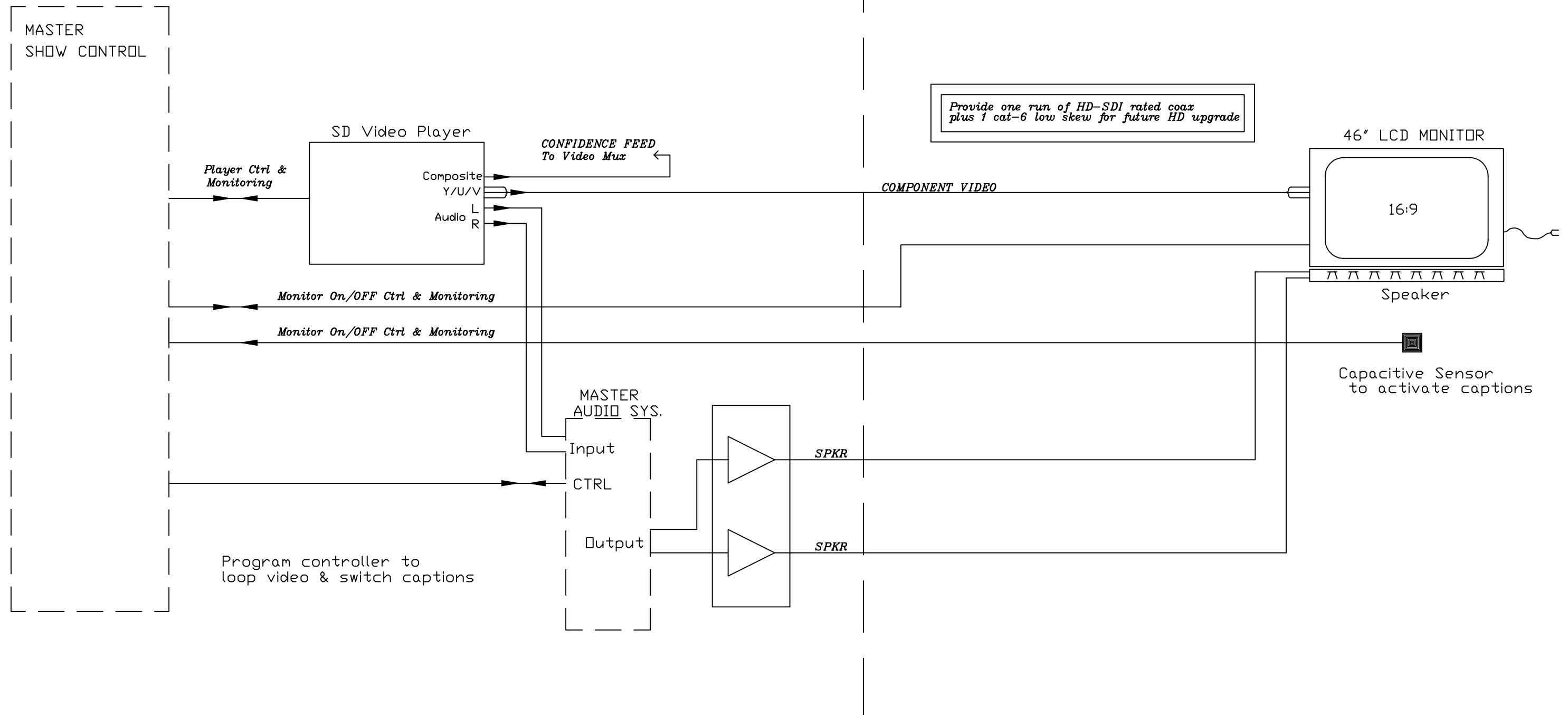
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Sheet Title	LK2.E06.av01
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Date	April 2, 2009
Scale*	100% Final Design April 2, 2009
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-121

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer
UMNH 1390 East President's Circle Salt Lake City, Utah #4112 801.581.6927 tel.	Polsek Partnership Architects LLP 320 West 13th South New York, New York 212.807.7171 tel.	Gillies Stansky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 900 South, Suite 100 Salt Lake City, Utah #4101 801.575.8877 tel.

Design Architect
Polshek Partnership Architects LLP
320 West 13th Street
New York, New York
212.807.7171 tel.

Architect of Record
Gillies Stransky Brems Smith
375 West 200 South
Salt Lake City, Utah
801.521.8600 tel.

Exhibit Structural Engineer
Leslie E. Robertson Associates
30 Broad Street
New York, New York 10004
212.750.9000 tel.

Building Engineer
Dunn Associates
380 West 800 South, Suite 100
Salt Lake City, Utah 84101
801.575.8877 tel.

Mechanical/Plumbing/FP Engineer
Colvin Engineering Associates, Inc.
244 West 300 North
Salt Lake City, Utah 84103
801.322.2400 tel

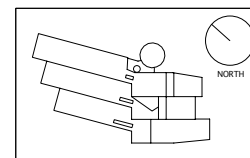
Electrical/AV Engineer
Spectrum Engineers
175 South Main Street
Salt Lake City, Utah 84111
800.678.7077 tel

Lighting
Branston Partnership
122 West 26th Street
New York, NY 10001
212.924.4050 tel.

Audio Visual
BBI Engineering, Inc.
241 Quint Street
San Francisco, CA 94124
415 685 9555 tel.

Exhibition Planner and Designer
Ralph Appelbaum Associates
88 Pine Street
New York, New York 10005
212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date	100% Final Design April 2, 2009
	No. / Issue Name / Date

Sheet Title LK2.E05.av01
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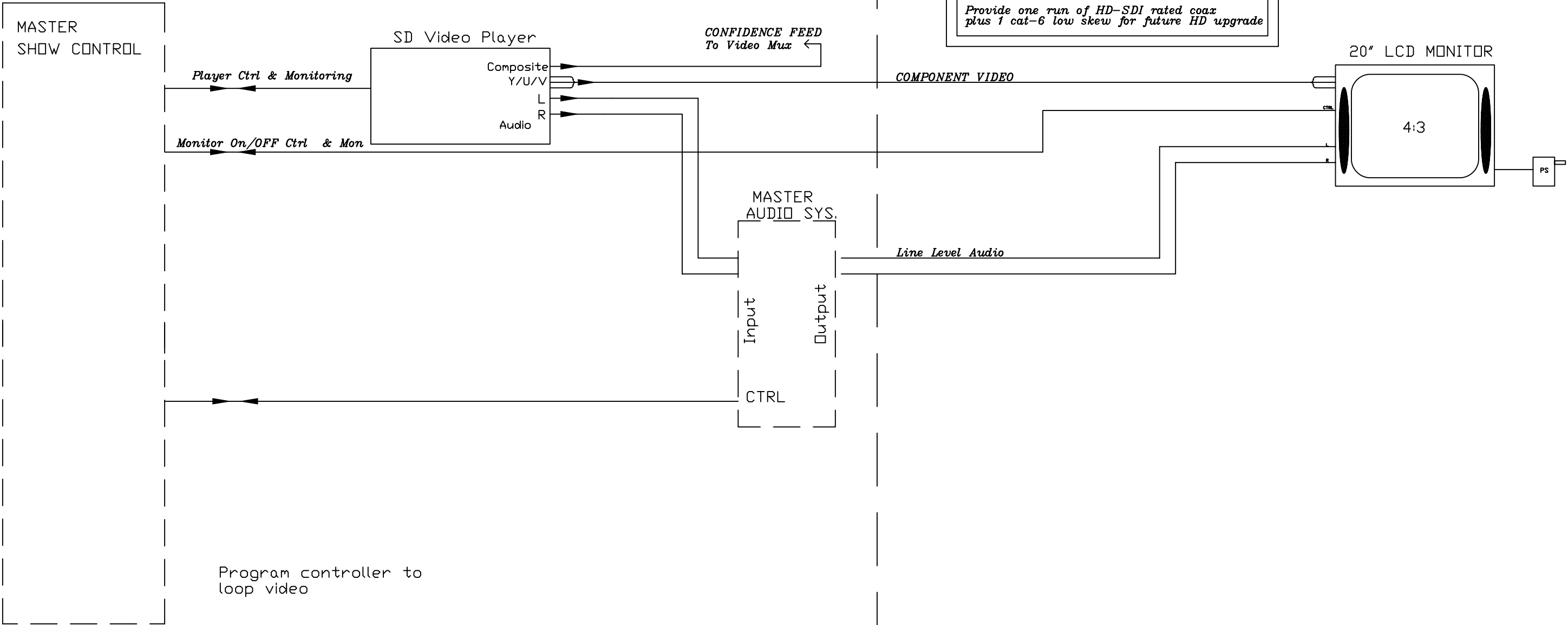
Date	RAA Project No. 0275
April 2, 2009	U. of U. Project No. 0872-9630
	DFCM Project No. 02243750
Scale*	Sheet No.

AV - 122

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR

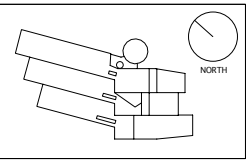


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

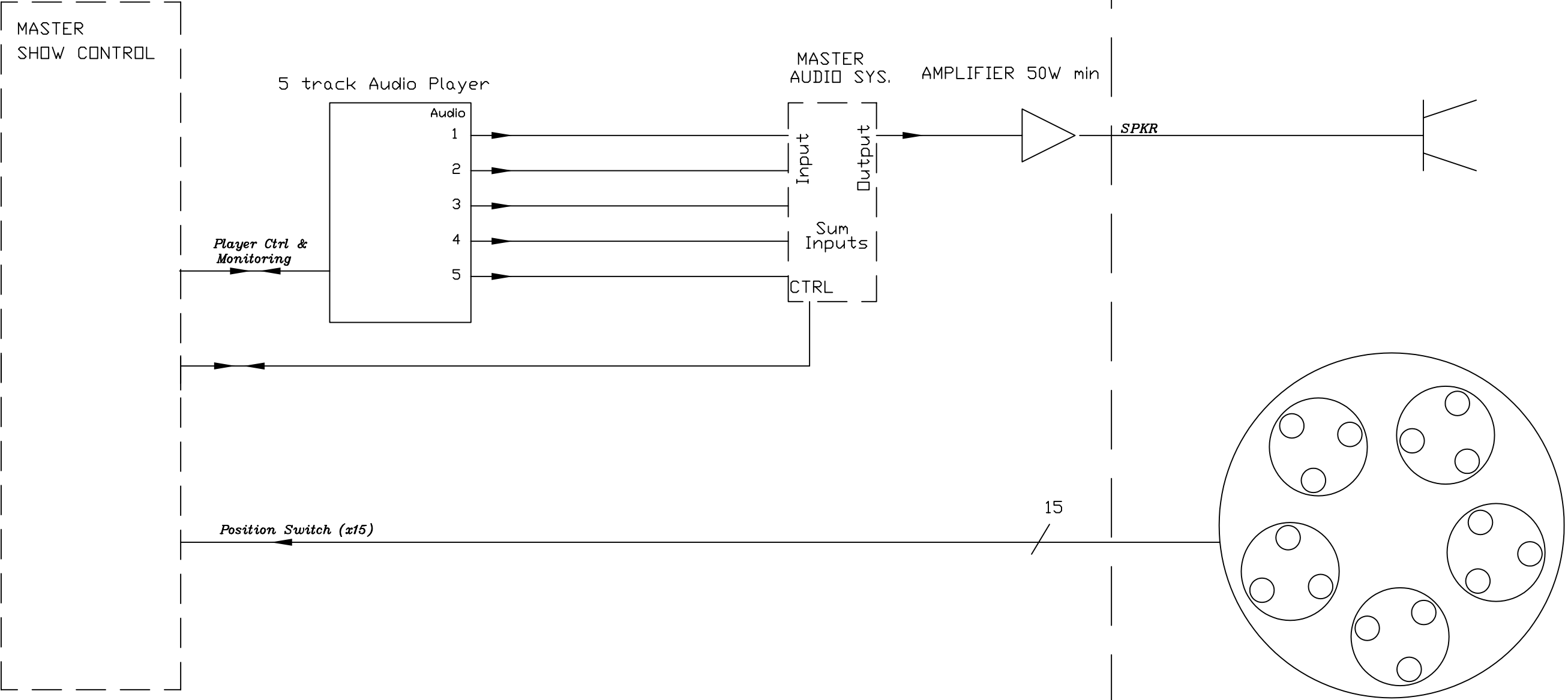
100% Final Design April 2, 2009
No. / Issue Name / Date

Sheet Title	PW7.E01.av01
Date	April 2, 2009
Scale*	
RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-123

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

EXHIBIT FLOOR



Program controller to trigger various sounds simultaneously based on position

Sounds may overlap, hold till previous sound complete or crossfade.

See interactive write up for more detail

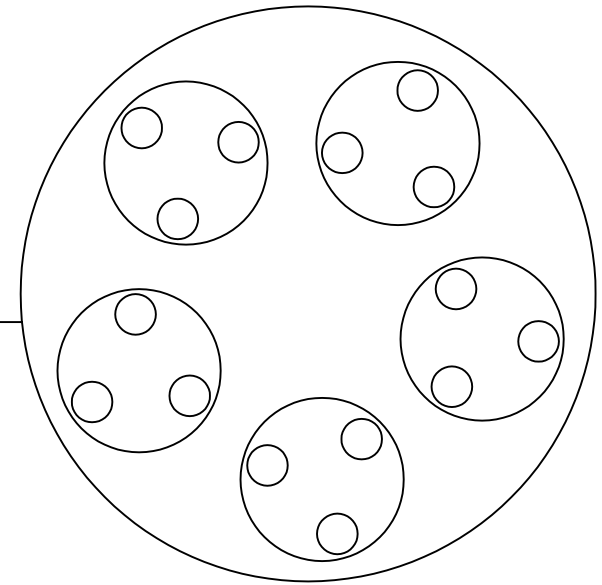
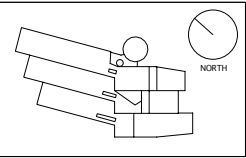


Table Mechainics & Switches/Sensors by fabricator
Coord w/ exhibit fab

UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branson Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

100% Final Design April 2, 2009
No. / Issue Name / Date

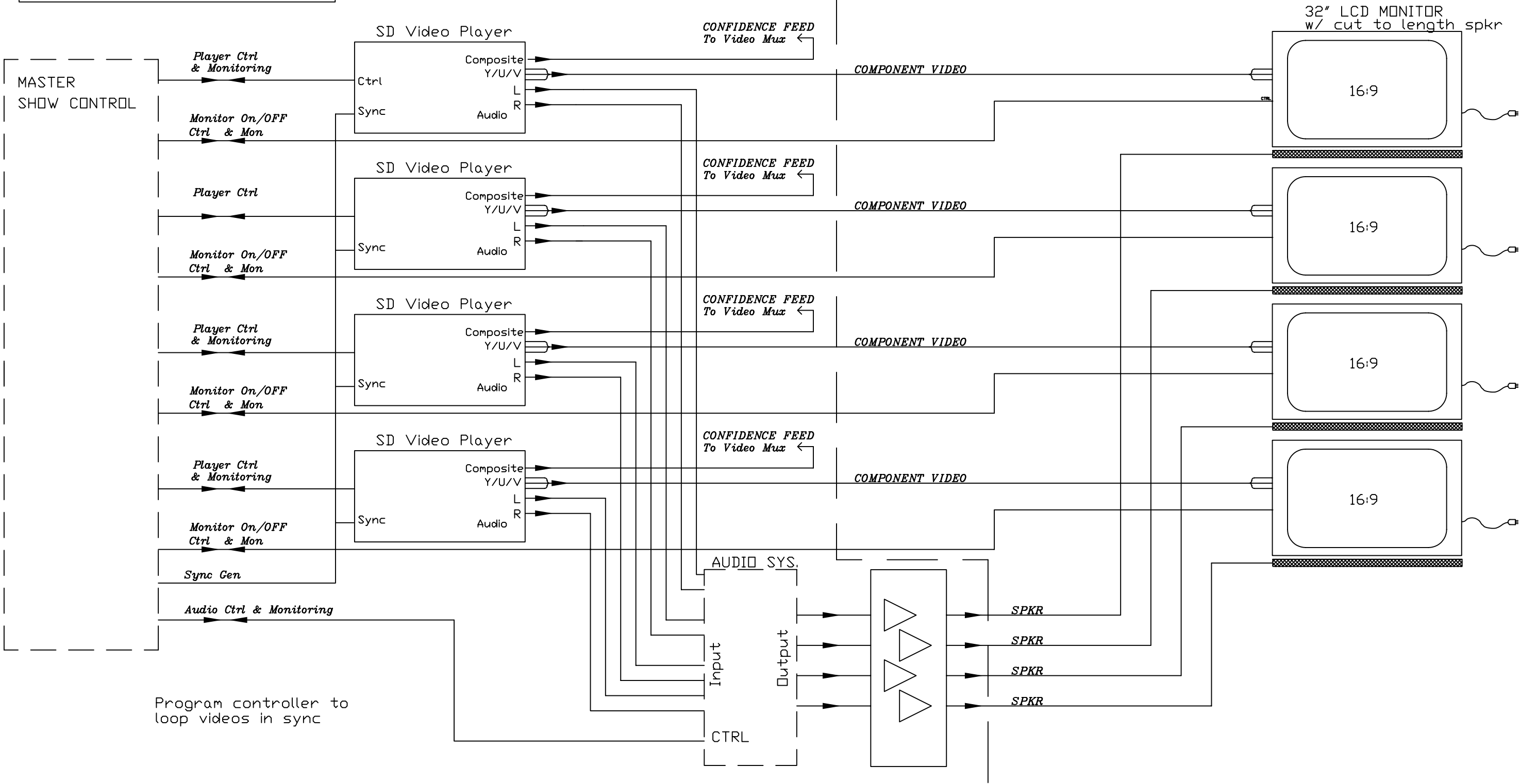
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	PLEISTOCENE DINNER
Date	April 2, 2009
Scale*	
	RAA Project No. 0275 U. of U. Project No. 0872-9630 DFCM Project No. 02243750 Sheet No.
	AV-124

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

To each monitor run one HD-SDI rated coax plus 1 cat-6 low skew for future HD upgrade

LOWER CONTROL ROOM

EXHIBIT FLOOR

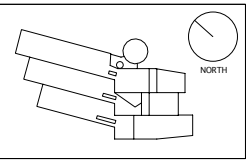


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstetter Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415.685.9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title	PW5.E03.av01
Date	April 2, 2009
Scale*	100% Final Design April 2, 2009

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

EXHIBIT FLOOR



UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

UMNH
1390 East President's Circle
Salt Lake City, Utah 84112
801.581.6927 tel.

Polshek Partnership Architects LLP
320 West 13th Street
New York, New York
212.807.7171 tel.

Gillies Stransky Brems Smith
375 West 200 South
Salt Lake City, Utah
801.521.8600 tel.

Leslie E. Robertson Associates
30 Broad Street
New York, New York 10004
212.750.9000 tel.

Dunn Associates
380 West 800 South, Suite 100
Salt Lake City, Utah 84101
801.575.8877 tel.

Colvin Engineering Associates, Inc.
244 West 300 North
Salt Lake City, Utah 84103
801.322.2400 tel

Spectrum Engineers
175 South Main Street
Salt Lake City, Utah 84111
800.678.7077 tel

Branston Partnership
122 West 26th Street
New York, NY 10001
212.924.4050 tel.

BBi Engineering, Inc.
241 Quint Street
San Francisco, CA 94124
415 685 9555 tel.

Ralph Appelbaum Associates
88 Pine Street
New York, New York 10005
212.334.8200 tel.

No. / Issue Name / Date

100% Final Design April 2, 2009

No. / Issue Name / Date

Sheet Title PW4.E01.av01
LATE CRETACEOUS

DFCM Project No. 02243750
Sheet No.

AV-126

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator

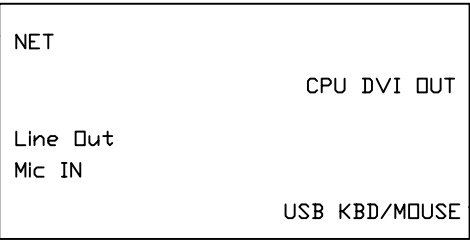
1Gb

1G NET

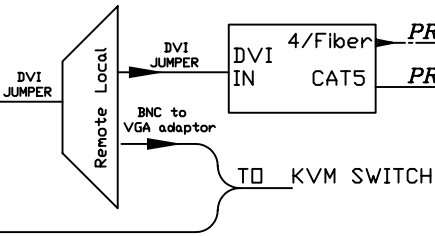
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MASTER
SHOW CONTROL

CPU



DVI DA/ VGA Converter

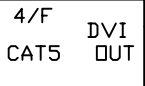


PROJ

PGM

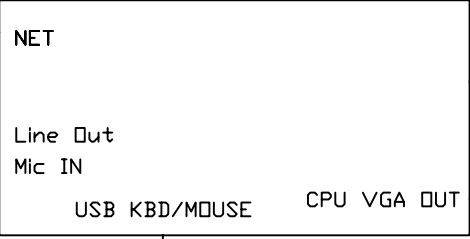
PROJ

EDID

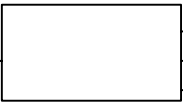


Projector 10Klu short lens a/r
spare lamps

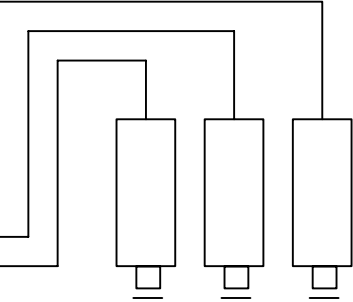
CPU



VIDEO INTERFACE



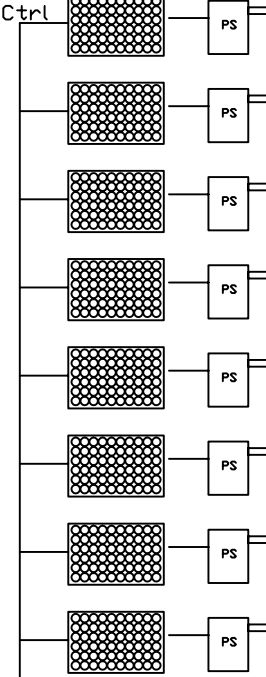
GESTURE VIDEO



570 line
Cameras

IR Filter
screw on

IR ILLUMINATORS



Projector Ctrl & Monitoring RS-232 or Net

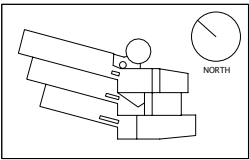
I/R On/Off and Sync Pulse

UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brams Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

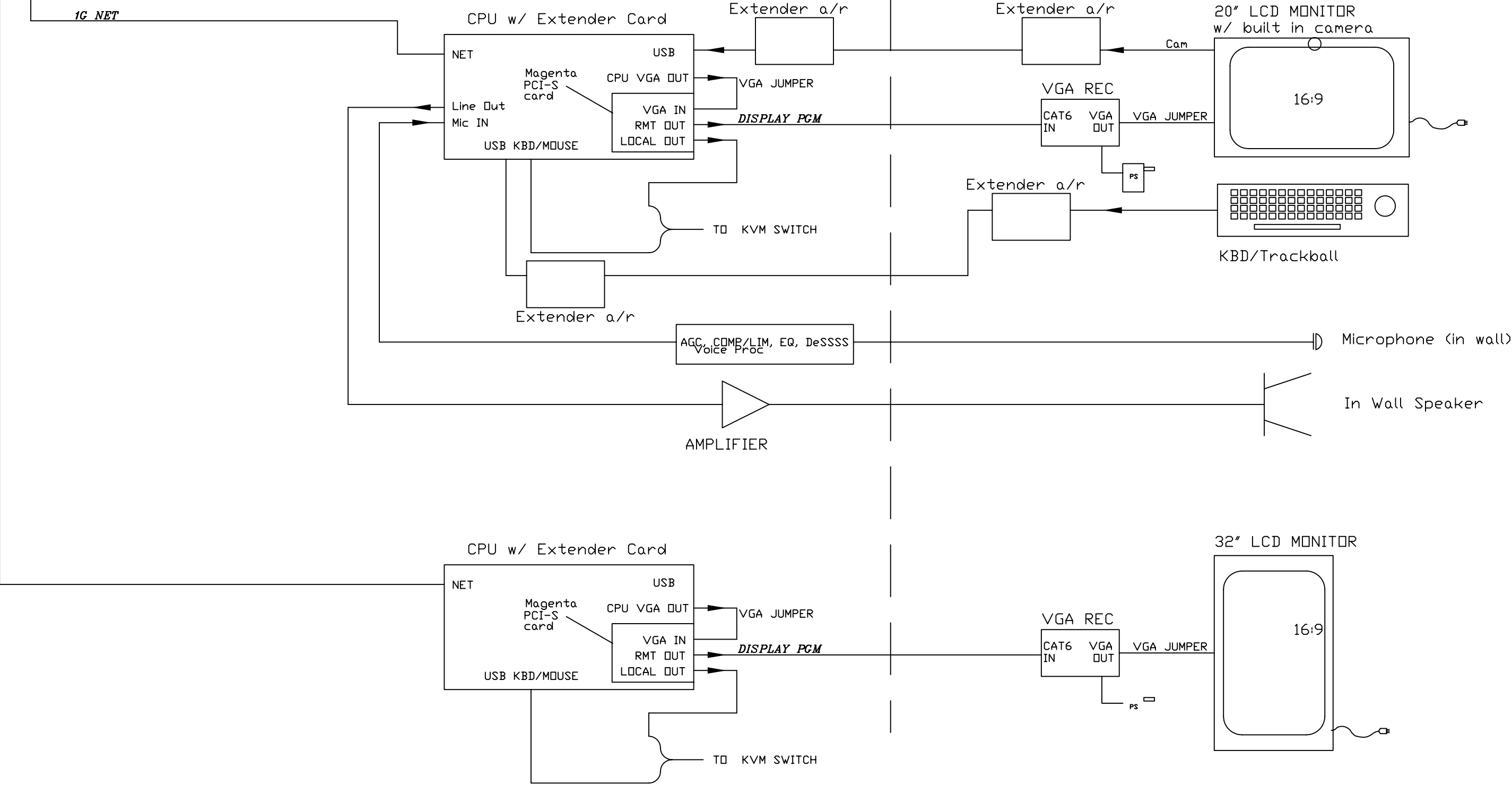
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Date	April 2, 2009
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RAA Project No.	0275
U. of U. Project No.	0872-9630
DFCM Project No.	02243750
Sheet No.	AV-127

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

AV Network Switch
by AV Integrator
1Gb

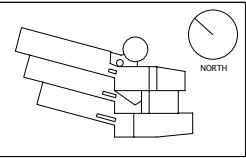
CONTROL ROOM | EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branston Partnership 122 West 28th Street New York, New York 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title
UF4.E01.av02
TALKBACK

Date
April 2, 2009

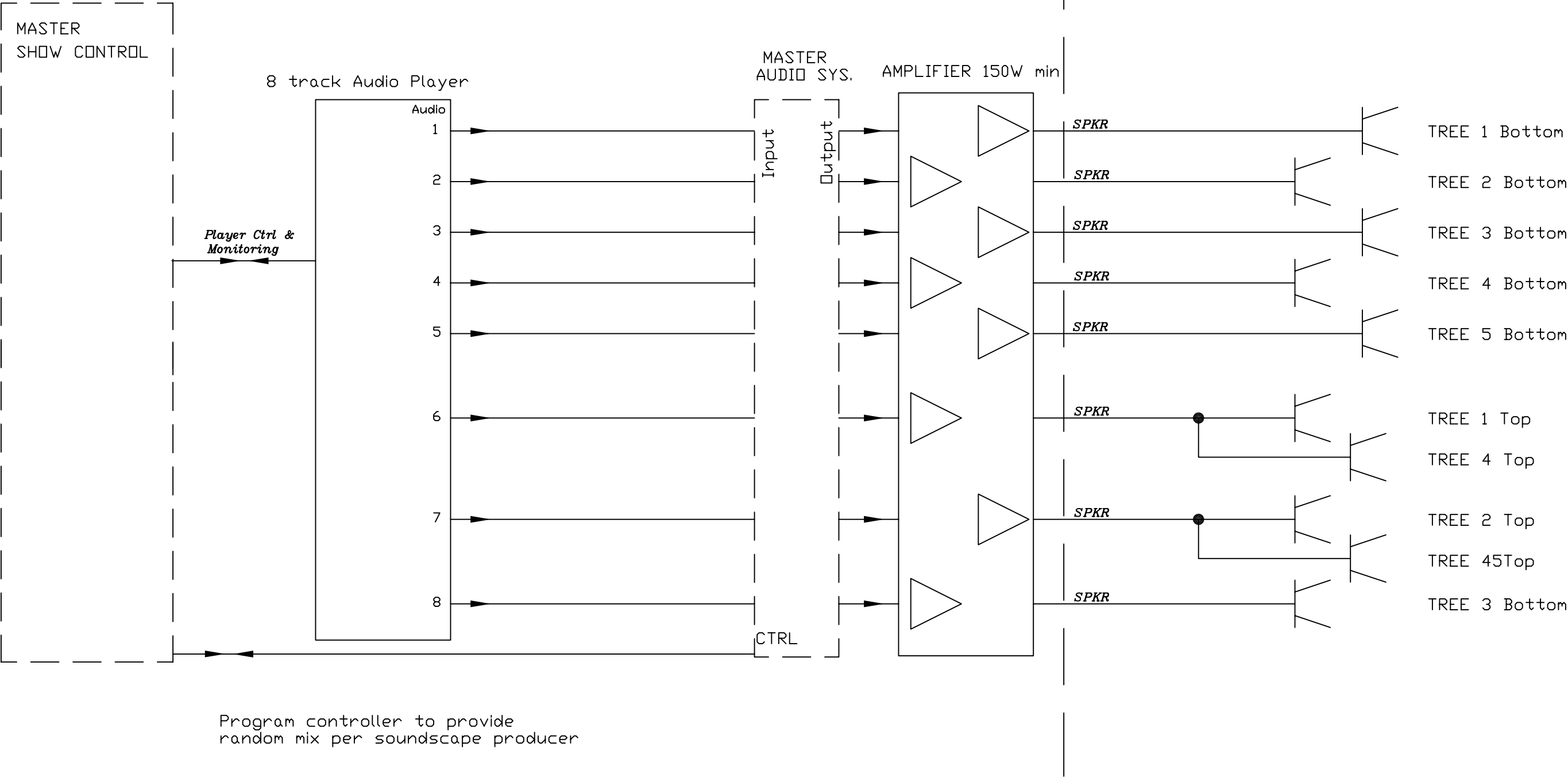
Scale*
100% Final Design April 2, 2009

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.
AV - 128

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

LOWER CONTROL ROOM

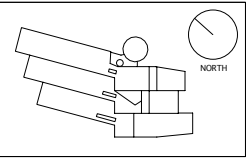
EXHIBIT FLOOR



UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction



Key Plan

No. / Issue Name / Date

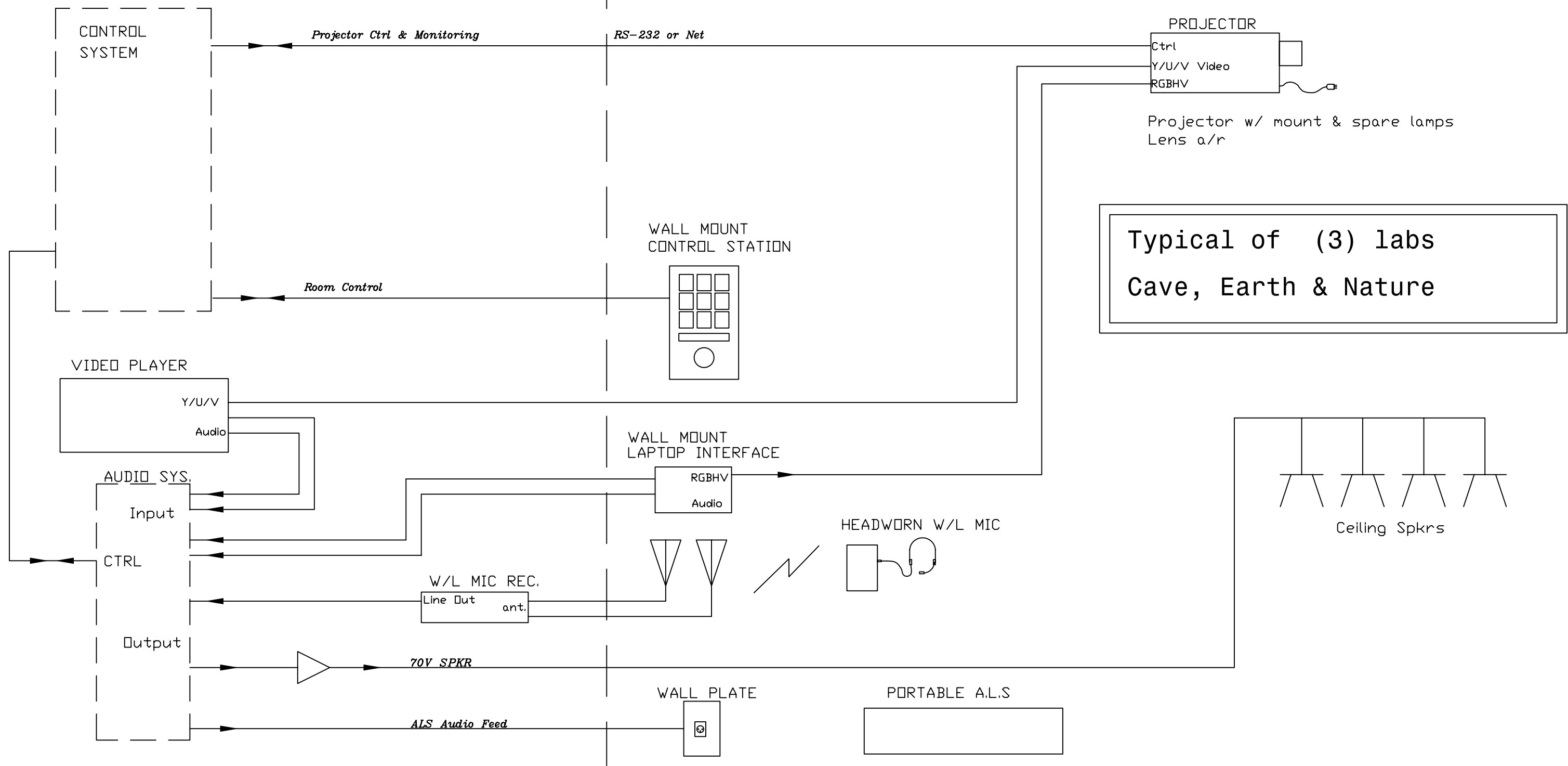
100% Final Design April 2, 2009
No. / Issue Name / Date

Sheet Title	OB2.E01.av01
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Date	April 2, 2009
Scale*	
	RAA Project No. 0275
	U. of U. Project No. 0872-9630
	DFCM Project No. 02243750
	Sheet No.
	AV - 129

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONTROL ROOM

EXHIBIT FLOOR

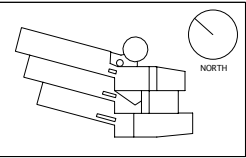


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Exhibit Construction

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel	Branston Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.



Key Plan

No. / Issue Name / Date	

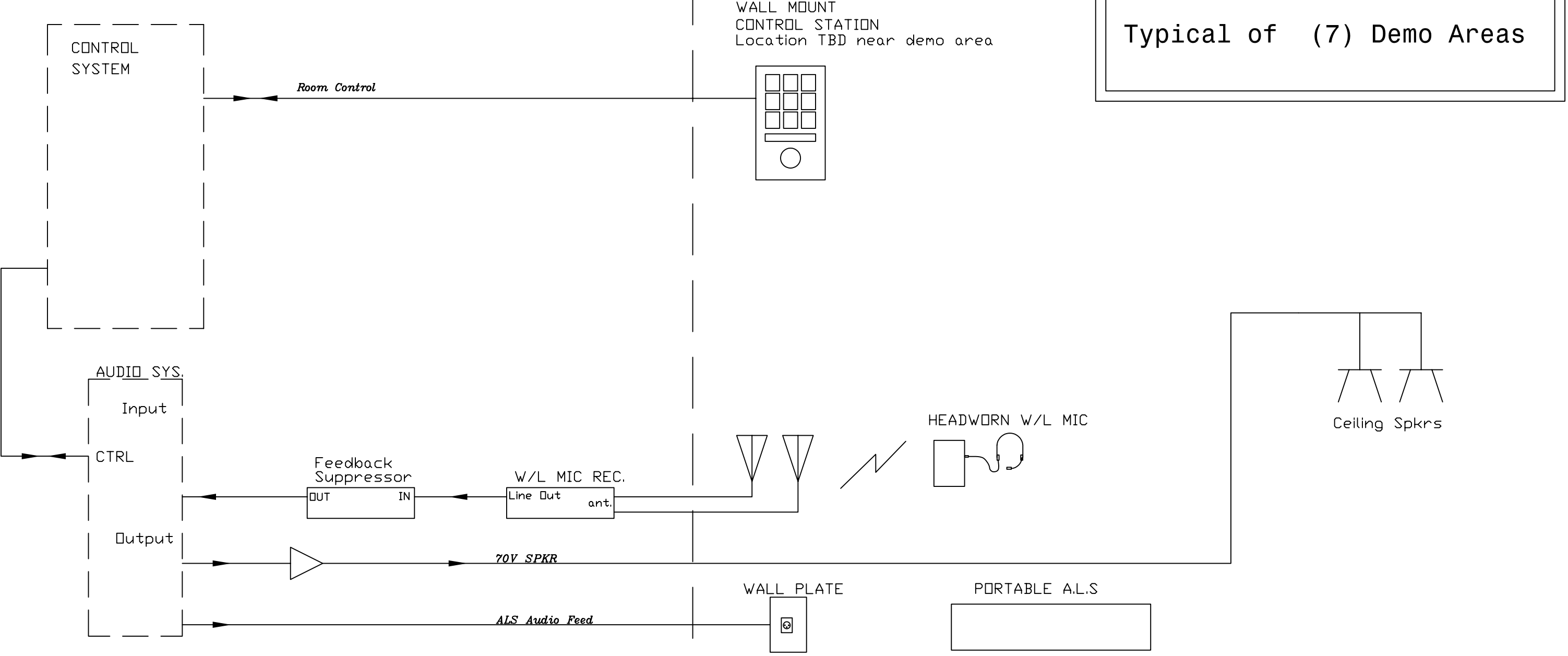
100% Final Design April 2, 2009	
No. / Issue Name / Date	

Sheet Title	
LABS	
Date	RAA Project No. 0275
April 2, 2009	U. of U. Project No. 0872-9630
Scale*	DFCM Project No. 02243750
	Sheet No.
	AV - 130

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONTROL ROOM

EXHIBIT FLOOR

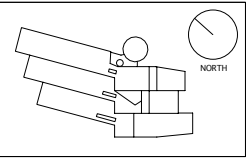


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstor Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title

DEMO AREA

Date

April 2, 2009

Scale*

100% Final Design April 2, 2009

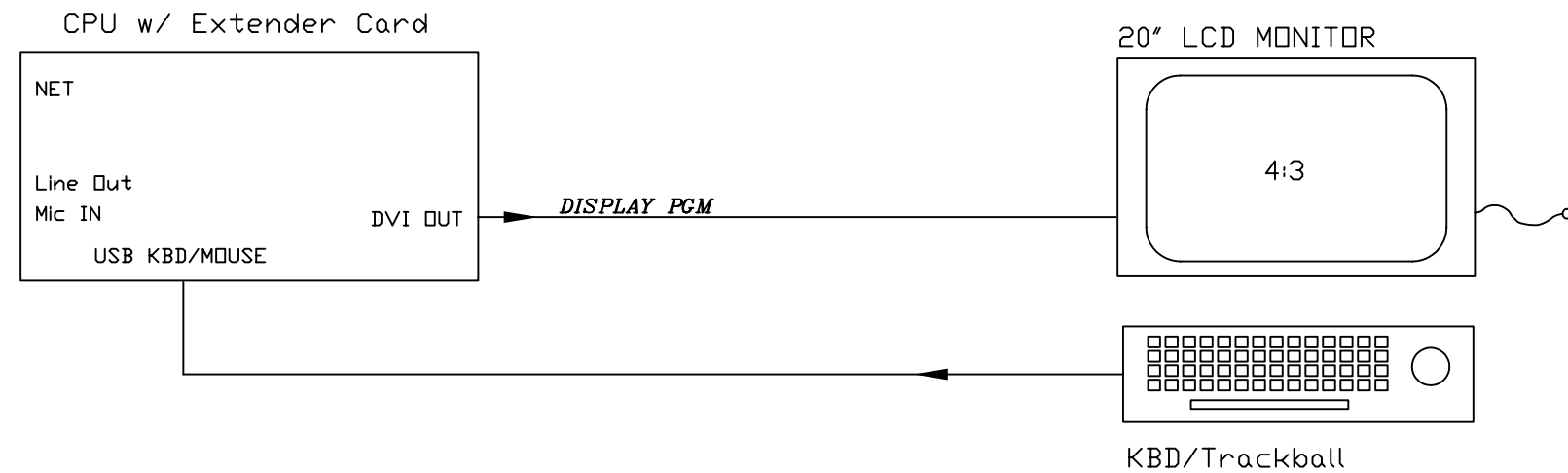
RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.

AV-131

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

IN CART ON EXHIBIT FLOOR

Typical of (3) Carts



UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer
UMNH 1390 East President's Circle Salt Lake City, Utah #4112 801.581.6927 tel.	Polsek Partnership Architects LLP 320 West 13th South New York, New York 212.807.7171 tel.	Gillies Stansky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 900 South, Suite 100 Salt Lake City, Utah #4101 801.575.8877 tel.

Design Architect
Polshek Partnership Architects LLP
320 West 13th Street
New York, New York
212.807.7171 tel.

Architect of Record
Gillies Stransky Brems Smith
375 West 200 South
Salt Lake City, Utah
801.521.8600 tel.

Exhibit Structural Engineer
Leslie E. Robertson Associates
30 Broad Street
New York, New York 10004
212.750.9000 tel.

Building Engineer
Dunn Associates
380 West 800 South, Suite 100
Salt Lake City, Utah 84101
801.575.8877 tel.

Mechanical/Plumbing/FP Engineer
Colvin Engineering Associates, Inc.
244 West 300 North
Salt Lake City, Utah 84103
801.322.2400 tel

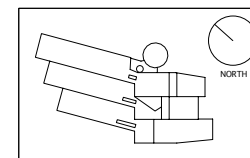
Electrical/AV Engineer
Spectrum Engineers
175 South Main Street
Salt Lake City, Utah 84111
800.678.7077 tel

Lighting
Branston Partnership
122 West 26th Street
New York, NY 10001
212.924.4050 tel.

Audio Visual
BBI Engineering, Inc.
241 Quint Street
San Francisco, CA 94124
415 685 9555 tel.

Exhibition Planner and Designer
Ralph Appelbaum Associates
88 Pine Street
New York, New York 10005
212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date	100% Final Design April 2, 2009 No. / Issue Name / Date

Sheet Title **HN.AV01-AV03**

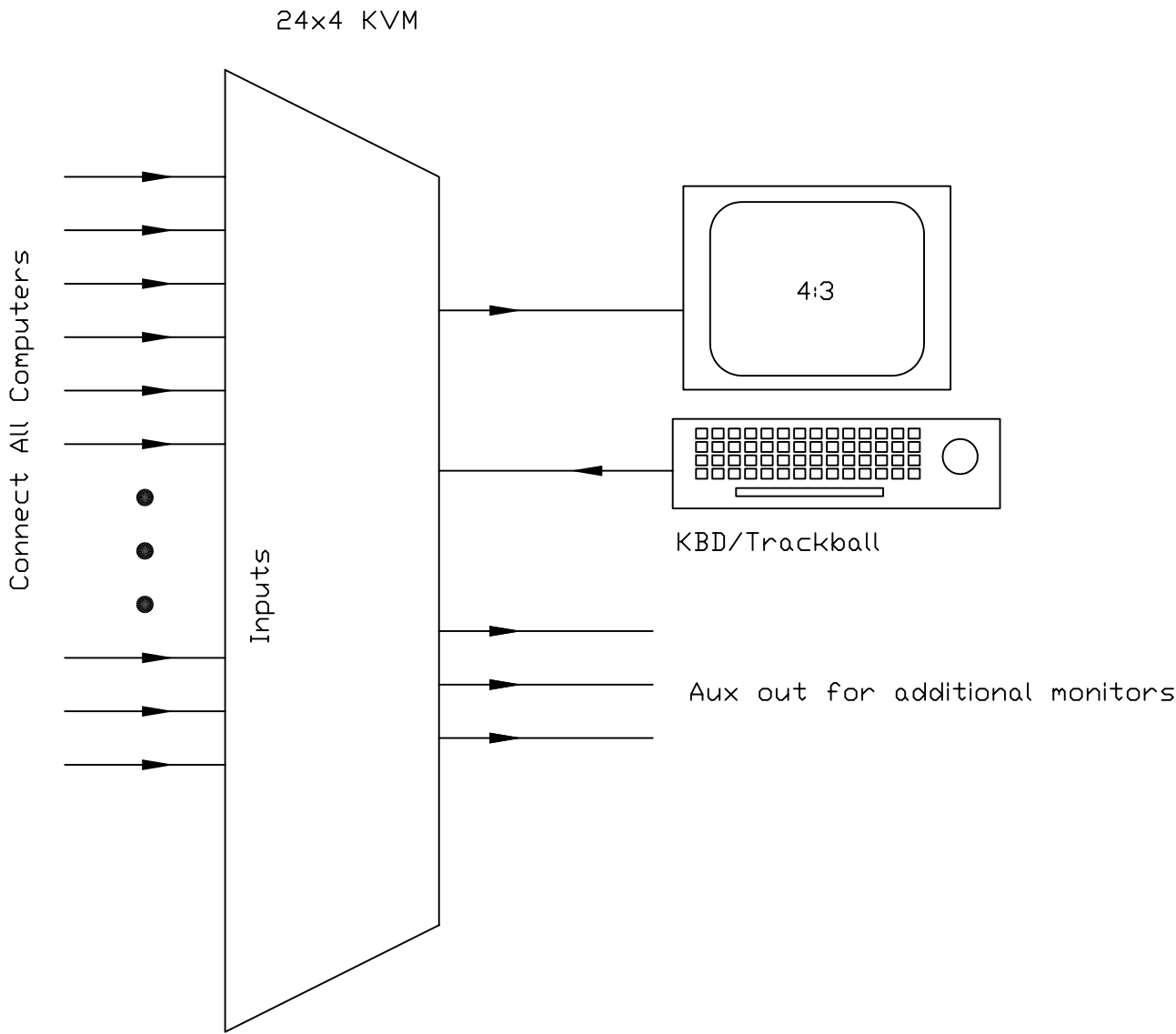
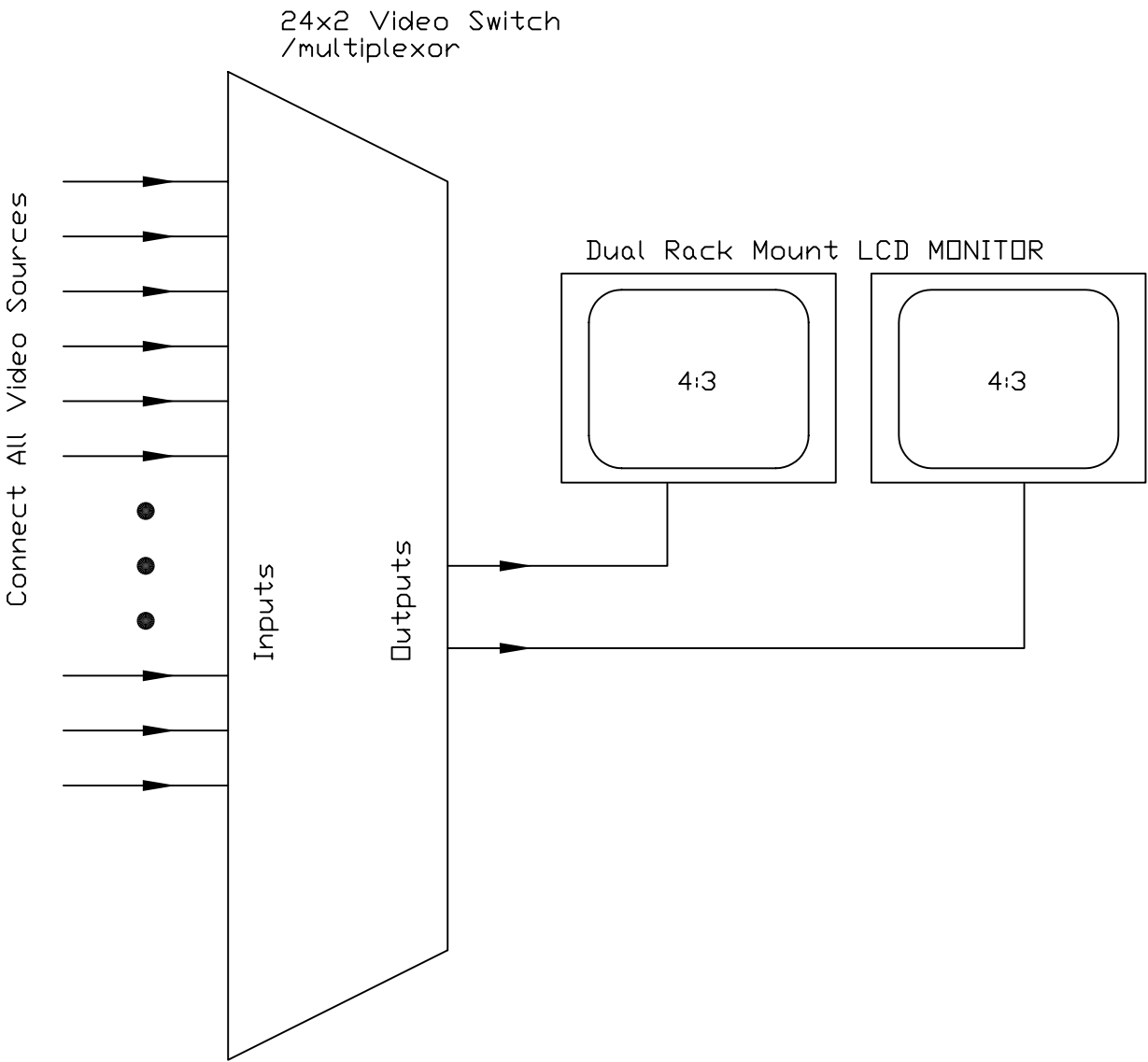
Nat Hist Now

Date	RAA Project No. 0275
April 2, 2009	U. of U. Project No. 0872-9630
	DFCM Project No. 02243750
Scale*	Sheet No.

AV - 132

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")

CONTROL ROOM

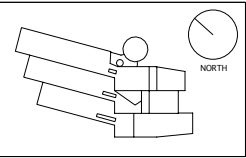


UTAH MUSEUM OF NATURAL HISTORY

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH

Owner	Design Architect	Architect of Record	Exhibit Structural Engineer	Building Engineer	Mechanical/Plumbing/FP Engineer	Electrical/AV Engineer	Lighting	Audio Visual	Exhibition Planner and Designer
UMNH 1390 East President's Circle Salt Lake City, Utah 84112 801.581.6927 tel.	Polshak Partnership Architects LLP 320 West 13th Street New York, New York 212.807.7171 tel.	Gillies Stransky Brems Smith 375 West 200 South Salt Lake City, Utah 801.521.8600 tel.	Leslie E. Robertson Associates 30 Broad Street New York, New York 10004 212.750.9000 tel.	Dunn Associates 380 West 800 South, Suite 100 Salt Lake City, Utah 84101 801.575.8877 tel.	Colvin Engineering Associates, Inc. 244 West 300 North Salt Lake City, Utah 84103 801.322.2400 tel.	Spectrum Engineers 175 South Main Street Salt Lake City, Utah 84111 800.678.7077 tel.	Branstetter Partnership 122 West 28th Street New York, NY 10001 212.924.4050 tel.	BBI Engineering, Inc. 241 Quint Street San Francisco, CA 94124 415 685 9555 tel.	Ralph Appelbaum Associates 88 Pine Street New York, New York 10005 212.334.8200 tel.

Exhibit Construction



Key Plan

No. / Issue Name / Date

No. / Issue Name / Date

Sheet Title

MONITORING

Date

April 2, 2009

Scale*

100% Final Design April 2, 2009

RAA Project No. 0275
U. of U. Project No. 0872-9630
DFCM Project No. 02243750
Sheet No.

AV - 134

*Note: Scale Given for Full Size Drawing Sheet (22" x 34")